BOARD MEETING DATE: May 3, 2013 AGENDA NO. 27

REPORT: Annual Report for 2012 on AB 2588 Air Toxics Hot Spots

Program

SYNOPSIS: The Air Toxics "Hot Spots" Information and Assessment Act of

1987 (AB 2588) requires local air pollution districts to prepare an

annual report. Key accomplishments for 2012 include:

(1) reviewed nine facility health risk assessments (HRAs) and approved seven HRAs; (2) notified two facilities to prepare air toxics inventory reports (ATIRs); (3) continued development of a mapping tool to display health risks from retail gas stations and perchloroethylene dry cleaners; (4) prioritized over 300 facilities;

and (5) updated AB 2588 website information.

COMMITTEE: Stationary Source, April 19, 2013, Reviewed

RECOMMENDED ACTION:

Receive and file.

Barry R. Wallerstein, D.Env. Executive Officer

EC:PF:TC

Background

Under the requirements of the California Air Toxic "Hot Spots" Information and Assessment Act of 1987 (AB 2588), the SCAQMD staff approves facility emission inventories, determines which facilities must prepare health risk assessments (HRAs), ensures that HRAs are prepared according to state and SCAQMD guidelines, and when needed, conducts public notification meetings or announcements and requires risk reduction. An additional requirement of the Act is for local air districts to provide an annual report of risk assessments and rulemaking that reduces emissions of air toxics.

Accomplishments

The attached report provides a summary of major program activities during the calendar year 2012 and anticipated activities during 2013. In 2012, nine facility HRAs were reviewed, seven HRAs were approved (five in 2012 and two in early 2013), and two

facilities were notified to prepare ATIRs. Calendar year 2011 facility toxic emissions were collected and added to the SCAQMD website, which is available to the public.

The facility HRA for Exide Technologies (ID 124838) was approved on March 1, 2013. The HRA estimates a maximum individual cancer risk of 156 in a million, primarily from arsenic emissions, at a worker receptor. The peak residential cancer risk is 22 in a million and the cancer burden is estimated to be 10. The maximum non-cancer chronic hazard index is 63 (primarily from arsenic) for the respiratory system at the same worker receptor as the peak cancer risk. The peak residential non-cancer chronic hazard index is 2.9. Lastly, the maximum non-cancer acute hazard index is 3.8 (primarily from arsenic) for the developmental system along the eastern fence line of the facility. The facility must conduct a public notice and is subject to the risk reduction requirements of Rule 1402. While the ambient arsenic concentrations measured at sites around the facility suggest that the HRA model may be significantly overestimating the risk at this particular maximum exposed individual worker receptor, monitoring results support the model's estimates of cancer burden and risk at other more distant receptors.

SCAQMD staff conducted numerous briefings for elected officials in March and April. Public meetings are scheduled for Thursday, May 30 and Saturday, June 1 in the communities of Commerce and Huntington Park. There will be several sessions on each of the two meeting dates to allow for maximum community participation. Finally, staff is also working with Exide to expedite installation of controls for the arsenic emissions.

In conjunction with Information Management staff, Planning staff continued with the development of a viewable and searchable mapping utility for displaying the industry-wide retail gas station and perchloroethylene dry cleaner risk assessment results. As a result of Management review in the fall, additional functionality was suggested and is under development to provide a list of facilities within 200 meters of the provided address.

Future Activities

In 2013, staff plans to:

- Conduct several AB 2588 public notices in early 2013.
- Develop an internal work plan for addressing emission inventory, risk assessment, and public notification procedures for the Industry-wide category of auto body shops.
- Publish cancer risks from retail gas stations and perchloroethylene dry cleaners on the SCAQMD website.
- Prioritize AB 2588 facilities and notify those with high-priority scores to prepare detailed air toxics inventory reports (ATIRs) and HRAs.
- Assist in the development and evaluation of the MATES IV air toxics emissions inventory.

• Continue to work on facility HRAs and detailed ATIRs that are either under review or will be submitted in 2013.

The annual report will be available on the SCAQMD's website and distributed to county boards of supervisors, city councils, and local health officers.

Attachment

Annual Report on AB 2588 Air Toxics "Hot Spots" Program

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Annual Report on AB 2588 Air Toxics "Hot Spots" Program

April 2013

Deputy Executive Officer Planning, Rule Development and Area SourcesElaine Chang, DrPH

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INTRODUCTION

This report satisfies Section 44363 of the California Health and Safety Code which requires the South Coast Air Quality Management District (SCAQMD) to annually prepare and publish a status and forecast report of the Air Toxics "Hot Spots" Information and Assessment Act (or AB 2588) activities. The main body of the report presents AB 2588 activities that occurred in calendar year 2012 and describes plans for future activities [Section 44363(a)(1)]. Appendix A lists facilities which have prepared health risk assessments for the AB 2588 program and their corresponding risks [Section 44363(a) (2) and (3)]. Appendix B describes the status of control measures and rules to reduce emissions of toxic air contaminants [Section 44363(a)(4)]. Appendix C shows trends in ambient air toxics in the South Coast Air Basin and vicinity.

Background

In 1987, the California legislature adopted the Air Toxics "Hot Spots" Information and Assessment Act (or AB 2588). AB 2588 requires facilities to submit an air toxics inventory report (ATIR). A facility's priority score is calculated from information in the ATIR.

SCAQMD staff follows the procedures in Health and Safety Code Section 44360 for prioritization and categorization of facilities. The potency, toxicity and amount of toxics released into the air, as well as the distance to workers, residents and sensitive receptors (such as hospitals, schools, and day care centers) are considered for prioritization and categorization. Facilities are assigned to high, medium, and low priority categories.

A facility with a priority score greater than ten (10) must provide a health risk assessment (HRA), following guidelines established by the State of California Office of Environmental Health Hazard Assessment (OEHHA),^[1] and supplemented by SCAQMD guidelines.^[2] If the risk reported in the HRA exceeds specific thresholds, then the facility is required to provide public notice to the affected community. The program is illustrated in Figure 1.

In 1992, the California legislature added a risk reduction component, the Facility Air Toxic Contaminant Risk Audit and Reduction Plan (or SB 1731), which required the District to specify a significant risk level, above which risk reduction would be required. In Rule 1402 – Control of Toxic Air contaminants From Existing Sources, the Governing Board set the significant risk level at a cancer risk of 100 in a million, and a total chronic or acute hazard index of 5.0. The Board also established action risk levels at a cancer burden of 0.5, a cancer risk of 25 in a million, and a hazard index of 3.0. One-time public notification and a public meeting are required for facilities with cancer risks greater than

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^{*} It was suggested, at the May 2011 Governing Board meeting, that reports be prepared every other year or every three years. Unfortunately, the Health and Safety Code Section 44363 requires that "each District shall prepare and publish an **annual** report . . ." and the ". . . board shall **hold one or more public hearings** to present the report and discuss its content and significance." (emphasis added)

or equal to ten in a million or non-cancer acute or chronic hazard index greater than one. Rule 1402 requires annual public notice until the facility gets below the action risk levels.

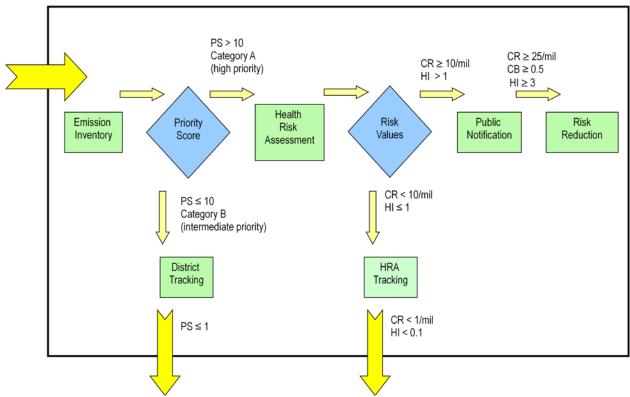


Figure 1. Schematic of the Hot Spots Program. (CR = cancer risk; PS = priority score; HI = hazard index; CB = cancer burden)

Currently, SCAQMD staff uses the web-based Annual Emissions Reporting (AER) Program to obtain a preliminary toxic inventory used for facility prioritization. Facilities with priority scores greater than ten are then asked to submit a detailed ATIR and perform an HRA using CARB's Hotspots Analysis and Reporting Program (HARP).^[3]

Under AB 2588, SCAQMD is required to use OEHHA's procedures^[1] to assess risks. These standardized procedures provide a valuable tool for statewide consistency in evaluating risks, communicating those risks to the public, and designing risk reduction programs.

However, it is also recognized that the estimates of health risks are based on the state of current knowledge, and the process has undergone extensive scientific and public review. However, there is uncertainty associated with the processes of risk assessment. This uncertainty stems from the lack of data in many areas necessitating the use of assumptions. The assumptions are consistent with current scientific knowledge, but are often designed to be conservative and on the side of health protection in order to avoid underestimation of public health risks.

As noted in the OEHHA risk assessment guidelines, sources of uncertainty, which may either overestimate or underestimate risk, include: (1) extrapolation of toxicity data in animals to humans, (2) uncertainty in the estimation of emissions, (3) uncertainty in the air dispersion models, and (4) uncertainty in the exposure estimates. Uncertainty may be defined as what is not known and may be reduced with further scientific studies. In addition to uncertainty, there is a natural range or variability in the human population in such properties as height, weight, and susceptibility to chemical toxicants.

Thus, the risk estimates should not be interpreted as actual rates of disease in the exposed population, but rather as estimates of potential risk, based on current knowledge and a number of assumptions. However, a consistent approach to risk assessment is useful to compare different sources and different substances to prioritize public health concerns.

Universe

Over the years, SCAQMD has screened or reviewed the toxic emissions of thousands of facilities and currently has nearly 450 facilities active in the program, more than any other air district in the state. A facility is considered active in the AB 2588 program if it is subject to Hot Spots fees and is required to update its toxic inventory once every four years. This includes facilities that have:

- cancer risks greater than or equal to one in a million; or
- non-cancer hazard index greater than or equal to 0.1; or
- priority score greater than 1.

Air districts were also permitted to identify Industry-wide categories. The facilities that qualify for these categories share the same Standard Industrial Classification (SIC) code, for the most part are small businesses that would suffer severe economic hardships by individual compliance, and can be easily and generically characterized. To date, the SCAQMD has identified seven Industry-wide categories:

- Retail Gasoline Dispensing,
- Perchloroethylene Dry Cleaning,
- Auto Body Shops,
- Fiberglass Molding,
- Printing,
- Metal Plating, and
- Wood Stripping / Refinishing.

The advantage to an Industry-wide category is that compliance may be handled collectively. The California Air Pollution Control Officers Association's (CAPCOA) Toxics Committee has been tasked with developing statewide emission inventory and risk assessment guidelines for several of these Industry-wide categories. Specifically, such guidelines have been completed for auto body shops^[4] and gasoline service stations.^[5]. The guidelines for perchloroethylene dry cleaners^[6] are being finalized by

CAPCOA. The guidelines provide a cost-effective and uniform method for calculating facility emissions and estimating toxic risks for the approximately 1,650 auto body shops, 3,300 gasoline service stations, and 740 perchloroethylene dry cleaners under the SCAQMD's jurisdiction. In this manner, the SCAQMD may prepare Industry-wide inventories, risk assessments, and public notices and risk reduction plans if necessary. Facilities with only emergency diesel internal combustion engines (DICEs) are treated similarly to an Industry-wide category.

ACTIVITIES AND ACCOMPLISHMENTS

In calendar year 2012, the AB 2588 program accomplished the following:

- Reviewed nine (9) facility HRAs;
- Approved seven (7) facility HRAs (five (5) in 2012 and two (2) in early 2013);
- Notified two (2) facilities to prepare ATIRs;
- Updated and continued development of a mapping tool to display health risks from retail gas stations and perchloroethylene dry cleaners;
- Prioritized the toxic emission inventory of over 300 facilities; and
- Added criteria and toxic emissions for calendar year 2011 to the AB 2588 website and made it available to the public.

Several of these are further explained below.

ATIRs, HRAs, and Risk Reduction

To date, staff has reviewed and approved over 300 (306) facility HRAs, 47 facilities were required to perform a public notice, and 21 facilities were subject to risk reduction. These 21 facilities are shown in Table 1.

Table 1. Status of Risk Reduction Plans

Fac. ID	Facility Name	Submitted?	Approved?	Implemented?	Residual Risk
7427	Owens-Brockway Glass	Yes	Yes	Yes	Acute HI: 0.01
7730	E.R. Carpenter	Yes	Yes	Yes	Chronic HI: 1.34
8015	Anadite Inc.	Yes	Yes	Yes	Cancer: 3.5
8547	Quemetco	Yes	Yes	Yes	Cancer: 4.4 Acute HI: 0.086 Chronic HI: 0.74 Can. Burden 0.023
8570	Embee Inc.	Yes	Yes	Yes	Cancer: 6.6
14191	Nicklor Chemical Co.	Yes	Yes	Yes	Non-cancer HIs: 0 (a)
15504	Schlosser Forge Co.	Yes	Yes	Yes	Cancer: 9.5 Chronic HI: 1.11
18294	Northrop-Grumman	Yes	Yes	Yes	Cancer: 7.6
22410	Palace Plating	Yes	Yes	Yes	Cancer: 5.6 (b) Acute HI: 0.73 Chronic HI: 0.38
25012	Amada Manufacturing America, Inc.	Yes	Yes	Yes	Cancer: <0.1
41229	Lubeco, Inc.	Yes	Yes	Yes	Cancer: 14.0
45938	E.M.E. Inc.	Yes	Yes	Yes	Cancer: <0.1
48323	Sigma Plating Co.	Yes	Yes	Yes	Cancer: 13.8
61160	GE Engine Services	Yes	Yes	Yes	Acute HI: 0.7
116459	GE Engine Services	Yes	Yes	Yes	Cancer: 9.3
119127	PRC DeSoto International	Yes	Yes	Yes	Cancer: 0 (a)
126501	Vought Aircraft Industries, Inc.	Yes	Yes	Yes	Cancer: 19.7 (c)
134931	Alcoa Global Fasteners, Inc.	Yes	Yes	Yes	Cancer: 0.6
800037	DeMenno/Kerdoon	Yes	Yes	Yes	Cancer: 4.9 Acute HI: <0.01 Chronic HI: 0.02 Can. Burden 0.01
800063	Grover Products Co.	Yes	Yes	Yes	Cancer: 3.3
800196	American Airlines, Inc.	Yes	Yes	Yes	Cancer: 5.4 Acute HI: 0.86

⁽a) Facility left the South Coast Air Basin so their risks are zero.

The results of the approved facility HRAs, after the implementation of risk reduction plans, are summarized in Figures 2 and 3. Appendix A summarizes the cancer and non-cancer risk levels for each of the facilities that prepared an HRA. About 95 percent of the facilities now have cancer risks below ten in a million and about 98 percent of the facilities have acute and chronic non-cancer hazard indices less than 1.

⁽b) Facility is shutdown so their risks are zero.

⁽c) The specific risk driver listed in this HRA is no longer in use & the resulting risk has been eliminated.

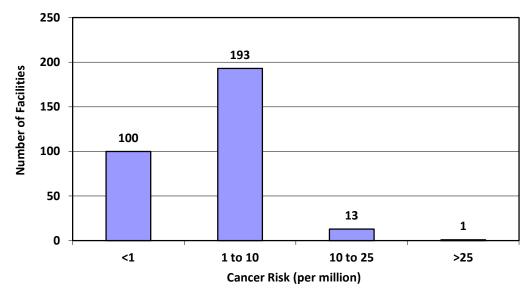


Figure 2. Summary of facility cancer risks.

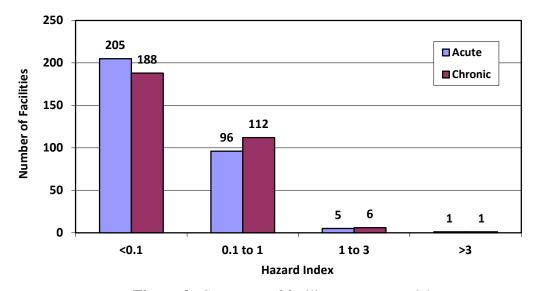


Figure 3. Summary of facility non-cancer risks.

Since the amendment of Rule 1402 on March 17, 2000, which established action risk levels, the AB 2588 staff identified 21 facilities that were required to reduce risks (see Table 1 on page 5). All facilities subject to risk reduction have fully implemented their respective plans.

In 2012, nine HRAs were reviewed including two refineries. Among these HRAs, seven were approved as follows: Exide Technologies (ID 124838), Phillips 66 Wilmington Refinery (ID 800363), Trojan Battery Company (ID 37507), Spraylat Corporation (ID 18396), Triumph Processing (ID 800267), Ultramar Inc. (ID 800026), and Southern California Edison (SCE) Pebbly Beach Generating Station (ID 4477).

Peak cancer risks from Exide Technologies are 156 in a million at a worker receptor just east of the facility. The cancer risks from the Phillips 66 Wilmington Refinery are 23.2 in a million and a public notification meeting was scheduled for March 21, 2013. For Trojan Battery, the cancer risks are 2.6 in a million; however, the non-cancer acute and chronic risks are 1.08 and 1.27, which trigger a public notice. The impact area only contained Trojan Battery's immediate neighbors, so a letter was sent to the five impacted commercial facilities. The cancer risks from Spraylat Corporation, Ultramar Inc., and SCE Pebbly Beach are between 1 and 10 in a million. And lastly, the cancer risks from Triumph Processing are less than 1 in a million.

Multiple Air Toxics Exposure Study (MATES)

MATES IV^[7] is the fourth in a series of urban toxics monitoring and evaluation studies conducted in the Basin. The previous studies took place in 1985-86, 1998-99, and 2004-06. MATES IV consists of several elements as follows: a comprehensive monitoring program, an updated emissions inventory of toxic air contaminants, and a modeling effort to fully characterize Basin risk. The measurement of ultrafine particle concentrations is a new focus for MATES IV. In addition, shorter-term measurements will be conducted at various locations, such as airports, freeways, rail yards, busy intersections, and warehouse operations to assess exposures to ultrafine particles and black carbon. Sampling began in June 2012 and will conclude June 2013 so that a full year of ambient data is collected. Emission inventory development will commence this spring with air quality modeling and risk assessment completed by late summer. A draft report will be available for review by November 2013.

AB 2588 staff is expected to participate in MATES IV because it affords an opportunity to identify facilities that may be contributing to elevated ambient risks, but have not been determined as such through our routine procedures of inventory assessment, prioritization, and risk assessment. For example, monitoring during MATES III noted elevated hexavalent chromium concentrations at the Rubidoux monitoring site. After an extensive investigation, local cement manufacturing facilities were identified as the sources of the elevated concentrations and Rule 1156 - Further Reductions of Particulate Emissions from Cement Manufacturing Operations - was amended on March 6, 2009 to address the air quality issue. [10]

FUTURE ACTIVITIES

In 2012, AB 2588 staff provided technical support for the Lead State Implementation Plan for Los Angeles County^[11] and the 2012 Air Quality Management Plan (AQMP). Thus, some of the following 2013 tasks are continued from 2012.

Public Notices

Important AB 2588 public notices will take place early in 2013. The Phillips 66 Wilmington Refinery (ID 800363) public notice was scheduled for March 21, 2013 at the Banning's Landing Community Center. Public notices are also expected in the spring for the Tesoro Refinery (ID 800436) and Exide Technologies Vernon (ID 124838).

Develop Internal Procedures for Addressing Emission Inventory, Risk Assessment, and Public Notification Procedures for the Other Industry-wide Categories

Staff will develop an internal work plan for addressing emission inventory, risk assessment, and public notification procedures for the Industry-wide category of auto body shops (approximately 1,650 facilities). This commitment is continued from the 2011 Annual Report.

Implement Public Notification Procedures for the Industry-wide Category of Retail Gas Stations and Perchloroethylene Dry Cleaners

An important task for 2013 is to publish cancer risks from retail gas stations and perchloroethylene dry cleaners on the SCAQMD website. This commitment is continued over from the 2011 Annual Report.

Prioritization of AB 2588 Facilities

Staff will prioritize about 100 facilities and notify those with high priority scores to prepare detailed Air Toxics Inventory Reports (ATIRs) and HRAs.

HRA and **ATIR** Review and Approval

Staff anticipates the review of about 10 facility HRAs and 10 detailed ATIRs.

MATES IV

Staff will assist in the development of an air toxics emission inventory which is a key input to the regional modeling and risk assessment tasks of MATES IV.

NOTES AND REFERENCES

- [1] OEHHA. 2003. The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. The document is available at http://www.oehha.org/air/hot_spots/HRAguidefinal.html.
- [2] SCAQMD. 2005. Supplemental Guidelines for Preparing Risk Assessments to Comply with the Air Toxics 'Hot Spots' Information and Assessment Act. The document is available at http://www.aqmd.gov/prdas/AB2588/AB2588AB
 2588 B3.html under the bullet item labeled "AQMD risk assessment guidelines."
- [3] CARB. 2005. Hotspots Analysis and Reporting Program (HARP). Link to HARP is http://www.arb.ca.gov/toxics/harp/harp.htm.
- [4] CAPCOA. 1996. Auto Bodyshop Industry-wide Risk Assessment Guidelines. Prepared by CAPCOA, September 1996. The document is located at the following link: http://www.arb.ca.gov/ab2588/riskassess.htm.
- [5] CAPCOA. 1997. Gasoline Service Station Industry-wide Risk Assessment Guidelines. Prepared by CAPCOA, December 1997. The document is located at the following link: http://www.arb.ca.gov/ab2588/riskassess.htm.

- [6] CAPCOA. 2003. Perchloroethylene Dry Cleaner Industry-wide Risk Assessment Guidelines. Prepared by CAPCOA, January 13, 2003 (Draft). The document is located at the following link: http://www.arb.ca.gov/ab2588/riskassess.htm.
- [7] MATES IV preliminary material is available at: http://www.aqmd.gov/prdas/MatesIV/MatesIV.html.
- [8] The MATES II report and related material is available at: http://www.aqmd.gov/matesiidf/matestoc.htm.
- [9] The MATES III report and related material is available at: http://www.aqmd.gov/prdas/matesIII/matesIII.html.
- [10] Information on the investigation of the elevated ambient hexavalent chromium concentrations are available at: http://www.aqmd.gov/RiversideCement/RiversideCement.html.
- [11] The Lead State Implementation Plan for Los Angeles County is available at: http://www.aqmd.gov/aqmp/Lead_SIP/homepage.htm.
- [12] The 2012 Air Quality Management Plan and related material is available at: http://www.aqmd.gov/aqmp/2012aqmp/index.htm.

Appendix A

Health Risk from Facilities with an Approved Health Risk Assessment (HRA)

The tables in Appendix A lists the facilities and the current risks as reviewed and approved by the AB 2588 staff. Table A-1 lists the facilities in order of their cancer risks and Table A-2 is ordered by facility ID. In most instances, the listed risks are from an approved HRA. However, in some instances, the risks are those after the implementation of a risk reduction plan. See Table 1, included in the report, for the status of the facility's risk reduction plan. Attention should also be given to the other footnotes in the table denoting facilities with updated HRAs pending approval and facilities with risk including emergency DICEs. It also provides current status of each facility as follows:

- A Active
- I Inactive
- OB Out of business (with the year in which the facility went out of business)

"Inactive" and "out of business" facilities have been retained for historical purposes since staff occasionally receives public inquiries regarding "inactive" or "out of business" facilities. Staff realizes that facilities that have gone through change of ownership could have different name and facility ID numbers. The following risk levels are identified in SCAQMD Rule 1402 – Control of Toxic Air Contaminants from Existing Sources:

- Action Risk Levels: Cancer risk ≥ 25 in a million; Acute HI ≥ 3.0; Chronic HI ≥ 3.0, Cancer Burden ≥ 0.5
- <u>Public Notification Levels:</u> Cancer risk ≥ 10 in a million; Acute HI > 1.0; Chronic HI > 1.0
- Exemption Levels: Cancer risk < 1 in a million; Acute HI < 0.1; Chronic HI < 0.1

Appendix A-1 Health Risks from Facilities with an Approved HRA (listed in descending order by cancer risks)

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
124838	A	Exide Technologies	Vernon	156	10	3.8	63	2013*
800363	A	CONOCO-PHILLIPS CO.	Wilmington	23.2	0.29	0.13	0.73	2013*
122822	OB	CONSOLIDATED FILM INDUSTRIES	Hollywood	21.00	n/a	0.11	0.40	2000
45448	A	GAS RECOVERY SYSTEMS, INC.	Newport Coast	20.1	0.18	0.56	0.32	2009
14495	A	VISTA METALS CORP.	Fontana	19.80	0.057	0.01	0.29	2008
126501	A	VOUGHT AIRCRAFT INDUSTRIES (b)	Hawthorne	19.70	n/a	0.64	0.24	2001
114927	A	ANVIL CASES / A CALZONE COMPANY	Industry	19.00	n/a	0.13	0.08	2002
11142	OB (2003)	KEYSOR-CENTURY CORP	Saugus	17.00	n/a	0.54	0.06	2000
18989	A	BOWMAN PLATING CO. INC.	Compton	14.20	0.021	< 0.01	< 0.01	2007
41229	A	LUBECO, INC.	Long Beach	14.02	n/a	0.00	0.12	2003
35302	A	OWENS CORNING FIBERGLASS CORP. (c)	Compton	14.00	0.015	0.07	0.10	2000
48323	A	SIGMA PLATING COMPANY	La Puente	13.84	0.017	0.01	0.74	2004
18648	OB (2006)	CROWN CITY PLATING COMPANY	El Monte	11.99	0.130	0.39	0.13	2000
29110	A	OR. CO., SANITATION DIST	Huntington Beach	10.70 (d)	0.210	1.78	0.48	2007
106797	OB (2005)	SAINT-GOBAIN CONTAINERS LLC	Los Angeles	9.85	n/a	0.00	0.07	2000
101380	OB (2005)	GENERAL DYNAMICS OTS (DOWNEY) INC	Downey	9.80	n/a	0.01	0.05	2000
148925	A	CHERRY TEXTRON	Santa Ana	9.70	n/a	0.07	0.15	1999
800183	A	PARAMOUNT PETROLEUM CORPORATION	Paramount	9.61	n/a	0.02	0.01	2002
800318	A	GRISWOLD INDUSTRIES	Costa Mesa	9.51	0.009	0.10	0.01	2001

^{*}Since most of the HRA review was conducted in 2012, these facilities were included in this table for informational purposes.

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
15504	A	SCHLOSSER FORGE CO.	Rancho Cucamonga	9.50	0.067	1.59	1.11	2003
800149	A	US BORAX & CHEM CORP	Wilmington	9.46	n/a	0.00	0.03	2000
10510	OB (2009)	GREGG INDUSTRIES INC.	El Monte	9.40	0.010	0.60	0.56	2008
155828	A	GARRETT AVIATION SERVICES INC.	Los Angeles	9.33	n/a	0.91	0.10	2005
42922	OB (2006)	CMC PRINTED BAG INC	Whittier	9.00	n/a	< 0.01	< 0.01	1995
800396	A	BP WEST COAST PRODUCTS, ARCO VINVALE	South Gate	9.00	0.023	< 0.01	0.03	1994
169990	A	SPS TECHNOLOGIES, LLC	Gardena	8.91	0.010	0.09	0.06	1999
800089	A	EXXON-MOBIL OIL CORPORATION	Torrance	8.90	0.380	0.06	0.05	2001
1744	A	KIRKHILL RUBBER CO	Brea	8.70	0.001	0.20	0.06	2007
800431	A	PRATT & WHITNEY ROCKETDYNE, INC.	Canoga Park	8.70	0.130	< 0.01	< 0.01	1995
44454	A	STRUCTURAL COMPOSITES INDUSTRIES, INC.	Pomona	8.60	0.001	0.01	0.23	2002
2680	A	LA CO., SANITATION DISTRICT	Whittier	8.57	n/a	0.00	0.03	1999
15736	I	HENRY CO	Huntington Park	8.50	0.026	0.00	0.00	2000
800057	A	GATX TANK STORAGE TERMINAL CORP	Carson	8.50	n/a	0.01	0.06	1999
800079	A	PETRO DIAMOND TERMINAL CO	Long Beach	8.30	n/a	0.00	0.16	1998
125281	OB (2004)	MODERN PLATING ALCO CAD-NICKEL PLATING	Los Angeles	8.20	n/a	0.10	0.01	1997
21615	OB (2004)	OPTICAL RADIATION CORP	Azusa	8.08	n/a	0.17	0.10	1998
110924	OB (2008)	WESTWAY TERMINAL COMPANY	San Pedro	8.00	0.370	0.33	0.51	1997
3609	I	AL'S PLATING CO INC	Los Angeles	7.81	n/a	0.26	0.17	1999
37603	A	POLYCARBON INC	Valencia	7.80	0.012	0.01	0.36	1998
800182	A	RIVERSIDE CEMENT CO. (c)	Riverside	7.80	n/a	0.05	0.13	2001
800436	A	TESORO REFINING AND MARKETING CO	Wilmington	7.80	n/a	0.33	0.45	2000

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
13920	A	ST. JOSEPH HOSPITAL	Orange	7.73	0.014	0.79	0.26	2008
18294	A	NORTHROP CORP., AIRCRAFT DIV WEST	El Segundo	7.60	n/a	0.13	0.05	2000
113170	A	SANTA MONICA HOSPITAL MEDICAL CTR UNIT 2 (b)	Santa Monica	7.60	0.000	0.17	0.01	1997
800214	A	LA CITY, HYPERION TREATMENT PLANT (c)	Playa del Rey	7.59	0.027	0.06	0.01	1999
20197	A	LAC/USC MEDICAL CENTER	Los Angeles	7.50	0.031	0.70	0.38	2007
800032	A	CHEVRON U.S.A. INC	Montebello	7.46	0.143	0.01	0.18	1999
800150	A	US GOVT., AF DEPT, MARCH AFB	Riverside	7.35	0.020	0.31	0.01	2008
108701	OB (2007)	BALL FOSTER GLASS CONTAINER CO.	El Monte	7.30	0.056	0.09	0.07	2000
117560	A	EQUILON ENTER, LLC-SHELL OIL PROD. US	Wilmington	7.30	n/a	0.03	0.07	1998
131003	A	BP WEST COAST PRODUCTS LLC	Carson	7.28	n/a	0.30	0.08	2000
800026	A	ULTRAMAR INC.	Wilmington	7.2	0.18	0.70	0.23	2012
800113	A	ROHR IND INC	Riverside	7.20	0.011	0.86	0.02	2007
800236	A	LA CO., SANITATION DIST UNIT NO.01	Carson	7.20	0.058	0.17	0.12	2007
49387	A	UNIV CAL RIVERSIDE	Riverside	7.13	0.220	0.00	0.04	1999
57094	A	G S ROOFING PRODUCTS CO INC (c)	Wilmington	7.00	n/a	0.01	0.01	2000
140499	A	AMERESCO HUNTINGTON BEACH, LLC	Huntington Beach	7.00	n/a	< 0.01	< 0.01	1995
55449	A	BKK CORPORATION, LANDFILL DIVISION GNRL	W. Covina	6.90	n/a	0.01	0.10	2000
800372	A	EQUILON ENTERPRISES,LLC	Carson	6.90	0.030	0.44	0.07	2001
20280	A	METAL SURFACES INC.	Bell Gardens	6.8	0.000	0.88	0.34	2011
42514	A	LA CO., SANITATION DIST., CALABASAS LANDFILL	Agoura	6.78	0.00	0.02	< 0.01	2010
5723	A	AEROCHEM INC	Orange	6.70	0.004	0.02	0.10	1999
34764	A	CADDOCK ELECTRONICS, INC.	Riverside	6.70	0.034	0.01	0.09	2002

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8570	A	EMBEE INC	Santa Ana	6.62	n/a	0.21	0.58	2001
800362	A	CONOCO-PHILLIPS CO.	Carson	6.6	0.11	0.03	0.26	2011
17301	A	OR CO., SANITATION DIST	Fountain Valley	6.60	0.032	0.39	0.34	2007
6643	A	TECHNICOLOR, INC	N. Hollywood	6.53	0.003	0.03	0.08	2007
141585	A	RESOLUTION SPECIALTY MATERIALS, LLC	Lynwood	6.50	0.150	0.13	1.60	1995
11726	I	GE ENGINE SERVICES	Ontario	6.46	n/a	0.12	0.59	1999
2852	A	WALT DISNEY CO	Burbank	6.40	0.031	0.02	0.02	1997
800066	A	HITCO	Gardena	6.40	0.310	0.34	0.05	1998
4477	A	SOUTHERN CALIFORNIA EDISON COMPANY	Avalon	6.3	0.02	0.01	0.02	2012
1226	A	HYATT DIE CAST & ENGINEERING CORP	Cypress	6.24	0.008	< 0.01	0.12	1996
800067	A	BOEING SATELLITE SYSTEMS INC	El Segundo	6.22	n/a	0.03	0.08	2000
146570	OB (2009)	ROHM AND HAAS CHEMICALS LLC	La Mirada	6.20	n/a	0.54	0.76	1999
45262	A	LA CO, SANITATION DISTRICT UNIT NO.02	Glendale	6.17	n/a	0.01	0.05	1998
140961	A	GKN AEROSPACE TRANSPARENCY SYS INC	Garden Grove	6.00	n/a	< 0.01	0.49	1996
800022	A	CALNEV PIPE LINE CO	Bloomington	5.90	n/a	0.00	0.07	1999
800198	A	ULTRAMAR INC	Wilmington	5.90	n/a	0.01	0.09	1999
800279	A	SFPP, L.P.	Orange	5.85	n/a	0.00	0.24	1999
8578	OB (2002)	ASSOCIATED CONCRETE PROD. INC	Santa Ana	5.80	n/a	0.13	0.57	1999
136148	A	E/M CORP, GREAT LAKES CHEMICAL CORP SUB	N Hollywood	5.80	0.000	0.28	0.57	1998
800129	A	SO PACIFIC PIPELINES INC	Rialto	5.75	n/a	< 0.01	0.02	1996
154540	A	ARROWHEAD BRASS PROD. INC	Los Angeles	5.70	n/a	0.26	0.04	1995
800288	A	UNIV CAL IRVINE UNIT NO 01	Irvine	5.64	n/a	0.00	0.07	1996

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22410	OB (2012)	PALACE PLATING	Los Angeles	5.60	n/a	0.73	0.38	2004
38971	A	RICOH ELECTRONICS INC	Irvine	5.60	0.007	0.02	0.39	1995
43201	A	SNOW SUMMIT SKI CORP	Big Bear Lake	5.53	0.003	0.01	0.01	2007
14146	A	MAC GREGOR YACHT CORP	Costa Mesa	5.50	n/a	0.00	0.10	1998
54424	A	L & L CUSTOM SHUTTERS	Placentia	5.50	0.000	0.15	0.21	2001
800409	A	TRW INC.	Redondo Beach	5.48	n/a	0.45	0.24	1998
800196	A	AMERICAN AIRLINES, INC.	Los Angeles	5.40	0.190	0.86	0.08	2005
800171	A	MOBIL OIL CO	Vernon	5.33	0.016	0.07	0.02	1997
134018	A	INDUSTRIAL CONTAINER SERVICES	Montebello	5.24	n/a	0.57	0.23	2000
109198	I	TORCH OPERATING CO. (STEARNS GAS CO)	Brea	4.97	n/a	0.05	0.01	2001
800037	A	DEMENNO/KERDOON	Compton	4.9	0.01	< 0.01	0.02	2009
103888	OB (2010)	A J INDUSTRIES INC, SARGENT-FLETCHER CO	El Monte	4.90	0.280	0.16	0.02	1999
11192	A	HI-SHEAR CORP	Torrance	4.80	0.002	0.04	0.02	2008
800038	A	DOUGLAS AIRCRAFT CO	Long Beach	4.80	n/a	0.15	0.11	1999
800264	A	EDGINGTON OIL, CO.	Long Beach	4.78	0.001	0.01	0.01	2002
101977	A	AMERIGAS PROPANE L.P.	Long Beach	4.70	0.002	0.59	0.97	1998
3950	OB (2005)	CROWN CORK & SEAL COMPANY, INC.	La Mirada	4.60	0.000	0.00	0.11	1997
83102	A	LIGHT METALS	Industry	4.50	0.008	0.04	2.70	2002
8547	A	QUEMETCO INC.	Industry	4.4	0.023	0.086	0.74	2010
136395	A	THOMASON MECHNICAL CORP, BENDER MACHINE	Vernon	4.40	0.001	0.99	0.02	2002
800041	OB (2009)	DOW U.S.A.	Torrance	4.40	n/a	0.09	0.01	2000
93346	I	COOPER DRUM CO	S. El Monte	4.30	n/a	0.09	0.16	1997

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115240	A	MARCHEM TECHNOLOGIES, LONZA INC	Long Beach	4.30	0.005	0.28	0.01	2001
131249	A	BP WEST COAST PRODUCTS LLC (c)	Wilmington	4.30	0.180	0.08	0.18	1995
124506	A	BOEING ELECTRON DYNAMIC DEVICES	Torrance	4.17	n/a	0.46	0.07	1995
6459	OB (2002)	HONEYWELL INTERNATIONAL INC.	Vernon	4.13	n/a	0.01	0.01	1999
18439	OB (2006)	ACE PLATING CO INC	Los Angeles	4.08	n/a	0.58	0.19	1998
118406	A	CARSON COGENERATION COMPANY	Carson	3.86	n/a	0.16	0.01	2007
45489	A	GUIDANT CORP	Temecula	3.80	0.006	1.31	0.01	2002
126060	A	STERIGENICS US, LLC	Ontario	3.80	0.000	0.00	0.01	2007
8820	A	REULAND ELECTRIC CO. H.BRITTON LEES	Industry	3.70	0.002	< 0.01	< 0.01	1996
9114	I	SOMITEX PRINTS OF CALIFORNIA	Industry	3.70	n/a	0.06	< 0.01	1996
17325	A	ACE CLEARWATER ENTERPRISES	Paramount	3.70	0.001	0.01	0.00	2002
106838	A	VALLEY-TODECO, INC	Sylmar	3.70	0.000	0.20	0.20	2000
105598	A	SENIOR FLEXONICS INC	Burbank	3.64	0.007	0.98	0.49	2001
7427	A	OWENS-BROCKWAY GLASS CONTAINER	Vernon	3.60	0.000	0.01	0.06	2001
800007	OB (2005)	ALLIED SIGNAL INC, EI SEGUNDO	El Segundo	3.58	n/a	0.02	0.53	2000
126197	A	ION BEAM APPLICATIONS INC.	Los Angeles	3.56	0.000	< 0.01	0.01	1996
127568	A	ENGINEERED POLYMER SOLUTION	Montebello	3.53	0.000	0.05	0.48	2000
151899	A	MEDALLION CALIFORNIA PROPERTIES CO	Newhall	3.51	n/a	0.02	0.20	2000
140811	A	DUCOMMUN AEROSTRUCTURES INC	Monrovia	3.50	0.007	0.01	0.01	2002
8015	A	ANADITE INC	South Gate	3.48	n/a	0.63	0.78	2003
9163	A	INLAND EMPIRE UTILITIES AGENCY	Ontario	3.44	0.001	0.25	0.01	2007
151415	A	AERA ENERGY LLC	Brea	3.40	0.020	0.05	0.00	1999

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153546	A	HUCK INTERNATIONAL INC	Carson	3.30	0.017	0.00	0.02	1999
126191	A	ION BEAM APPLICATIONS INC.	Los Angeles	3.29	0.000	< 0.01	0.00	1996
800063	A	GROVER PROD. CO	Los Angeles	3.29	0.039	0.88	0.07	2002
800189	A	DISNEYLAND RESORT	Anaheim	3.25	0.030	0.11	0.06	2009
18396	A	SPRAYLAT CORPORATION	Los Angeles	3.2	0.000	0.74	< 0.01	2012
6384	A	LA CO., RANCHO LOS AMIGOS MEDICAL CENTER	Downey	3.14	0.082	0.01	0.06	1999
11435	A	THE PQ CORP	South Gate	3.00	n/a	0.00	0.01	1998
800395	A	BP WEST COAST PRODUCTS, ARCO CARSON	Carson	3.00	0.001	< 0.01	0.02	1994
10005	A	ELECTRONIC CHROME GRINDING CO, INC.	Santa Fe Springs	2.96	0.010	0.24	0.06	2001
52517	A	REXAM PLC, REXAM BEVERAGE CAN COMPANY	Chatsworth	2.93	0.0076	0.73	0.1	2009
18452	A	UCLA (REGENTS OF UC) (c)	Los Angeles	2.91	n/a	0.01	0.11	1999
2613	A	US GOVT, NAVY DEPT, NAVAL WEAPONS STN	Seal Beach	2.90	0.004	0.11	0.00	2002
16660	A	MC DONNELL DOUGLAS SPACE SYS CO.	Huntington Beach	2.89	0.001	0.23	0.05	2007
116868	I	EQUILON ENTERPRISES,LLC	Rialto	2.88	n/a	0.00	0.04	1999
800035	OB (2011)	CONTINENTAL AIRLINES INC	Los Angeles	2.83	n/a	0.01	0.13	1997
48274	OB	FENDER MUSICAL INST	Corona	2.81	0.004	0.03	0.37	1997
151798	A	TESORO REFINING AND MARKETING CO.	Carson	2.77	n/a	0.14	0.00	1999
151984	A	TESORO REFINING AND MARKETING CO.	Wilmington	2.75	0.002	0.00	0.01	2000
46268	A	CALIFORNIA STEEL INDUSTRIES, INC.	Fontana	2.74	0.016	0.16	0.31	1995
800030	A	CHEVRON U.S.A. INC	El Segundo	2.73	n/a	0.29	0.13	2001
5887	A	ANABOLIC INC	Irvine	2.70	0.154	0.03	0.00	1997
16642	A	ANHEUSER-BUSCH INC.(LA BREWERY)	Van Nuys	2.70	n/a	0.02	0.13	1999

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25440	OB (2010)	ROBERTSHAW CONTROLS CO, GRAYSON CONTROLS	Long Beach	2.70	0.003	0.00	0.96	1998
27701	OB (2008)	CADDOCK ELECTRONICS, INC.	Riverside	2.70	n/a	0.02	0.06	2002
137517	I	RELIANT ENERGY ETIWANDA,LLC	Etiwanda	2.67	0.160	0.01	0.17	2000
133987	A	PLAINS EXPLORATION & PRODUCTION CO. LP	Inglewood	2.65	n/a	0.01	0.07	1997
134943	A	ALCOA GLOBAL FASTERNERS, INC.	Torrance	2.61	n/a	0.55	0.04	2008
35483	A	WARNER BROTHERS STUDIO FACILITIES	Burbank	2.60	0.008	0.10	0.26	1997
37507	A	TROJAN BATTERY COMPANY	Santa Fe Springs	2.55	0.000	1.08	1.27	2012
7949	A	CUSTOM FIBERGLASS MFG CO/CUSTOM HARDTOP	Long Beach	2.50	0.078	< 0.01	< 0.01	1995
79682	A	RAMCAR BATTERIES INC	Commerce	2.43	n/a	0.04	0.17	1998
800278	A	SFPP, L.P.	Carson	2.43	n/a	0.00	0.10	1999
18188	A	PLASMA TECHNOLOGY INC.	Torrance	2.40	0.000	0.11	0.00	2007
18508	A	AIR PROD & CHEM INC, PACIFIC ANCHOR CHEM	Los Angeles	2.40	0.000	0.10	0.81	1999
800202	A	UNIVERSAL STUDIOS INC	Universal City	2.40	n/a	< 0.01	0.03	1996
800387	A	CALIFORNIA INSTITUTE OF TECHNOLOGY	Pasadena	2.40	n/a	0.05	0.00	2007
152033	A	TESORO REFINING AND MARKETING CO.	Long Beach	2.39	n/a	0.00	0.01	1999
133405	OB (2008)	BODYCOTE INC./BODYCOTE THERMAL PROCESSING	Los Angeles	2.36	n/a	0.03	0.20	1999
1208	OB (2008)	MICROSEMI CORPORATION	Santa Ana	2.30	0.004	0.01	0.01	2001
124838	A	EXIDE TECHNOLOGIES (c)	Vernon	2.30	0.010	0.53	0.04	1999
800056	A	GATX STORAGE TERMINALS CORP	San Pedro	2.30	n/a	0.00	0.03	1997
103659	OB (2007)	FOUR MEDIA CO.	Burbank	2.22	n/a	0.61	0.04	2004
99773	A	CYTEC FIBERITE INC.	Anaheim	2.20	0.000	0.04	0.19	2000
9668	A	DELUXE LABORATORIES INC, DELUXE LABORATOR	Hollywood	2.10	0.000	0.01	0.02	2000

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40829	A	HAWKER PACIFIC INC	Sun Valley	2.07	0.000	0.04	0.09	2009
18931	A	TAMCO	Rancho Cucamonga	2.04	0.017	0.01	0.24	2001
142267	A	FS PRECISION TECH LLC	Rancho Dominguez	2.03	n/a	0.08	0.15	2001
800181	A	CALIFORNIA PORTLAND CEMENT CO (c)	Colton	2.00	0.001	< 0.01	0.39	1996
2605	A	3M CO	Northridge	1.98	0.002	0.40	0.38	1996
14502	A	VERNON UTILITY DEPARTMENT	Vernon	1.98	0.000	0.01	0.01	2007
54627	A	HICKORY SPRINGS OF CAL INC	Commerce	1.95	n/a	0.01	0.48	1998
800325	A	TIDELANDS OIL PRODUCTION CO (L.B. Oil Co)	Long Beach	1.90	n/a	0.07	0.62	1999
10245	A	LA CITY SANITATION BUREAU, TERMINAL ISLAN	San Pedro	1.83	0.005	0.02	0.03	2000
23559	OB (2005)	JOHNSON CONTROLS BATTERY GROUP INC	Fullerton	1.80	n/a	0.01	0.08	2001
800003	A	HONEYWELL INTERNATIONAL INC	Torrance	1.77	n/a	0.00	0.01	1999
1947	A	THUMS LONG BEACH CO, UNIT NO.01	Long Beach	1.70	0.170	< 0.01	0.14	1996
8309	A	CAMBRO MANUFACTURING CO	Huntington Beach	1.70	0.002	0.00	0.15	2000
22467	A	LEFIELL MFG CO	Santa Fe Springs	1.70	0.000	0.75	0.17	2000
82512	A	BREA CANYON OIL CO	Wilmington	1.70	n/a	0.01	< 0.01	1996
119907	A	BERRY PETROLEUM	Santa Clarita	1.60	n/a	0.20	0.73	1999
119920	OB (2006)	ALUMINUM COMPANY OF AMERICA	Vernon	1.60	n/a	0.30	0.30	1996
133660	A	HAYDEN INDUSTRIAL PRODUCTS	Corona	1.60	n/a	0.82	0.44	1998
107350	OB (2007)	N O-RING CORPORATION	Downey	1.53	n/a	0.00	0.01	2001
2638	A	OCCIDENTAL COLLEGE	Los Angeles	1.50	0.002	0.07	0.01	2007
126536	A	CONSOLIDATED FOUNDRIES, POMONA	Pomona	1.50	n/a	0.00	0.02	1999
25070	A	LA CO., SANITATION DISTRICT (c)	Whittier	1.46	0.003	0.33	0.08	2009

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82513	A	BREA CANYON OIL COMPANY INC	Harbor City	1.40	n/a	0.02	< 0.01	1996
800408	A	TRW INC.	Manhattan Beach	1.37	n/a	0.92	0.10	1998
3968	A	TABC INC.	Long Beach	1.35	0.002	0.05	0.22	1999
62679	OB (2009)	KOP-COAT INC	Vernon	1.33	n/a	0.00	0.49	1997
123087	A	INDALEX WEST INC.	Industry	1.27	n/a	0.00	0.03	1999
126544	A	PAC FOUNDRIES INDUSTRY	Industry	1.27	n/a	0.59	0.09	1996
2526	A	CHEVRON USA INC	Van Nuys	1.25	0.007	< 0.01	0.01	1996
22551	A	THUMS LONG BEACH CO, UNIT NO.04	Long Beach	1.20	0.000	0.00	0.01	2000
42633	A	LA CO., SANITATION DIST, SPADRA LANDFILL	Walnut	1.20	0.002	< 0.01	< 0.01	1996
106009	A	VENOCO INC.	Beverly Hills	1.16	n/a	0.05	0.00	2005
152054	A	BREA CANYON OIL COMPANY, INC.	Brea	1.14	n/a	< 0.01	0.12	1996
124806	OB (2004)	EXIDE TECHNOLOGIES	Industry	1.00	n/a	0.00	0.04	1999
800127	A	THE GAS CO.	Montebello	0.99	0.000	0.01	0.01	2009
7730	A	E R CARPENTER CO INC	Riverside	0.96	0.000	0.03	1.34	2003
20375	A	PRUDENTIAL OVERALL SUPPLY	Riverside	0.96	0.000	0.03	0.08	1997
6670	OB (2006)	TRU-CUT, INC.	Los Angeles	< 1	0.000	0.00	0.04	2002
47056	OB (2005)	MYERS CONTAINER CORP	Huntington Park	0.90	0.000	0.23	2.00	2002
800301	A	ITT GILFILLAN UNIT NO.01	Van Nuys	0.86	0.000	0.12	0.19	1998
3134	A	THUMS LONG BEACH CO, UNIT NO.05	Long Beach	0.84	0.000	< 0.01	< 0.01	1996
18378	A	GRUBER SYSTEMS, INC.	Valencia	0.83	0.000	0.14	0.10	2004
22556	A	THUMS LONG BEACH CO, UNIT NO.02	Long Beach	0.80	0.000	< 0.01	< 0.01	1996
111415	A	VAN CAN CO, SUBSIDIARY OF VAN CAMP SEAFO	Fontana	0.80	0.000	< 0.01	0.08	1996

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120088	A	BREITBURN ENERGY CO.	Santa Fe Springs	0.79	0.000	0.01	0.04	1998
126964	A	EDWARDS LIFESCIENCES LLC	Irvine	0.75	0.000	< 0.01	0.00	1995
22373	OB (2011)	CONTAINER CORPORATION OF AMERICA	Los Angeles	0.74	0.000	< 0.01	< 0.01	1996
24060	OB (2011)	TOMKINS INDUSTRIES INC-LASCO PRODS GROUP	Anaheim	0.72	0.000	< 0.01	0.02	1996
800091	A	MOBIL OIL CORP	Anaheim	0.72	0.000	0.01	0.00	1999
772	A	DEFT INC	Irvine	0.70	0.000	< 0.01	< 0.01	1995
24756	A	CRANE CO, HYDRO-AIRE DIV	Burbank	0.63	0.000	0.04	0.05	1997
115394	A	AES ALAMITOS, LLC	Long Beach	0.63	0.000	0.00	0.02	1999
134931	A	ALCOA GLOBAL FASTENERS, INC.	Fullerton	0.61	0.000	1.90	0.02	2003
24957	A	GLENDALE CITY	Glendale	0.59	0.000	0.00	0.02	1999
15647	A	CUSTOM ENAMELERS INC	Fountain Valley	0.55	0.000	0.11	0.02	2000
3093	A	LA CO., OLIVE VIEW/UCLA MEDICAL CENTER	Sylmar	0.53	0.000	0.00	0.02	1999
21895	A	AC PRODUCTS, INC.	Placentia	0.53	0.000	0.00	0.00	2003
6281	I	US GOVT,MARINE CORPS AIR STATION,EL TORO	El Toro	0.51	0.000	< 0.01	< 0.01	1996
1634	OB (2005)	STEELCASE INC, WESTERN DIV	Tustin	0.50	0.000	< 0.01	< 0.01	1995
39388	A	THUMS LONG BEACH CO, UNIT NO.03	Long Beach	0.50	0.000	< 0.01	< 0.01	1996
61160	OB (2010)	GE ENGINE SERVICES	Ontario	0.50	0.000	0.70	0.01	2003
800267	A	TRIUMPH PROCESSING, INC.	Lynwood	0.48	0.000	0.12	0.36	2012
152501	A	PRECISION SPECIALTY METALS, INC.	Los Angeles	0.45	0.000	0.38	0.15	2001
43436	A	TIMCO	Fontana	0.43	0.000	0.00	0.43	1997
18990	A	LIFE PAINT COMPANY	Santa Fe Springs	0.41	0.000	0.02	0.00	2001
44577	A	LONG BEACH CITY, SERRF PROJECT (c)	Long Beach	0.4	0.000	0.02	0.08	2011

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12660	OB (2009)	GOLDSHIELD FIBERGLASS, INC, PLANT #58	Fontana	0.40	0.000	0.01	0.05	1994
115536	A	AES REDONDO BEACH, LLC	Redondo Beach	0.40	0.000	0.01	0.04	1998
122295	OB (2007)	FALCON FOAM, A DIV OF ALTAS ROOFING	Los Angeles	0.40	0.000	0.00	0.00	1999
115663	A	EL SEGUNDO POWER, LLC	El Segundo	0.34	0.000	0.00	0.01	2000
25638	A	BURBANK CITY, PUB SERV DEPT	Burbank	0.33	0.000	0.33	0.01	1996
124805	A	EXIDE TECHNOLOGIES	Commerce	0.33	0.000	0.00	0.04	2000
550	A	LA CO., INTERNAL SERVICE DEPT	Los Angeles	0.32	0.000	0.02	0.00	2008
112192	OB (2005)	CONSOLIDATED DRUM RECONDITIONING CO. INC.	South Gate	0.31	0.000	0.00	0.00	1997
800343	A	BOEING SATELLITE SYSTEMS, INC.	El Segundo	0.30	0.000	< 0.01	0.21	1996
24520	A	LA CO, SANITATION DISTRICTS	Rolling Hills Estates	0.29	0.000	< 0.01	< 0.01	1998
99119	A	INTERPLASTIC CORP	Hawthorne	0.28	0.000	0.05	0.32	1999
122300	OB (2010)	BASF CORPORATION	Colton	0.28	0.000	0.56	0.02	2002
19989	OB (2000)	PARKER HANNIFIN AEROSPACE CORP	Irvine	0.27	0.000	0.01	0.00	1999
107149	A	MARKLAND MANUFACTURING INC.	Santa Ana	0.26	0.000	0.06	0.12	2007
161142	A	FOAMEX L.P.	Compton	0.25	0.000	0.00	0.01	2010
160916	A	FOAMEX INNOVATIONS, INC.	Orange	0.18	0.000	0.39	0.43	1994
16264	A	INTL COATINGS CO INC	Cerritos	0.17	0.000	0.00	0.00	1999
800074	A	LA CITY, DWP HAYNES GENERATING STATION	Long Beach	0.17	0.000	0.00	0.01	2000
48300	A	PRECISION TUBE BENDING	Santa Fe Springs	0.15	0.000	0.00	0.00	2002
800168	A	PASADENA CITY, DWP	Pasadena	0.15	0.000	0.70	0.00	1996
800193	A	LA CITY, DWP; VALLEY STM PLANT	Sun Valley	0.15	0.000	0.25	0.00	1999
37336	A	COMMERCE REFUSE TO ENERGY FACILITY	Commerce	0.12	0.00	0.01	0.00	2010

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
42676	A	AES PLACERITA, INC.	Newhall	0.11	0.000	0.08	0.01	2003
114801	A	RHODIA INC.	Carson	0.11	0.000	0.02	0.05	2006
115389	A	SO CAL EDISON CO	Huntington Beach	0.11	0.000	0.00	0.00	1999
7416	A	PRAXAIR INC	Wilmington	0.11	0.000	0.04	0.03	2001
1992	OB (2009)	PRUDENTIAL OVERALL SUPPLY	Van Nuys	0.10	0.000	0.00	0.00	1997
16044	I	SPECIALTY ORGANICS INC	Irwindale	0.10	0.000	0.00	0.23	1997
25012	A	AMADA MFG AMERICA, INC.	La Mirada	<0.1	0.000	0.00	0.00	2002
24812	A	FARMER BROS CO	Torrance	0.09	0.000	0.00	0.02	1999
94872	A	METAL CONTAINER CORP.	Mira Loma	0.08	0.000	0.39	0.36	2002
111110	A	BRISTOL FIBERLITE IND	Santa Ana	0.08	0.000	0.00	0.02	1995
156741	A	HARBOR COGENERATION CO.	Wilmington	0.05	0.000	0.02	0.00	2002
20144	OB (2000)	CANON BUSINESS MACHINES INC	Costa Mesa	0.05	0.000	0.00	0.07	1999
800320	A	AMVAC CHEMICAL CORP.	Los Angeles	0.04	0.000	0.07	0.34	2004
45938	A	E.M.E. INC/ELECTRO MACHINE & ENGINEERING	Compton	0.04	0.000	0.00	< 0.01	2001
117785	OB (2011)	BALL METAL BEVERAGE CONTAINER CORP.	Torrance	0.04	0.000	0.21	0.91	2001
22229	A	PROCESSES BY MARTIN, INC.	Lynwood	0.04	0.000	0.00	0.00	2002
800075	A	LA CITY, DWP SCATTERGOOD GENERATING STN.	Playa del Rey	0.03	0.000	0.00	0.00	2000
145368	A	SEMMATERIALS LP	Fontana	0.02	0.000	0.33	0.01	1999
115586	OB (2011)	SUNDANCE SPAS	Chino	0.02	0.000	0.05	0.43	1996
51620	A	WHEELABRATOR NORWALK ENERGY COMPANY	Norwalk	0.02	0.000	0.01	0.02	1996
800009	OB	AMERON PROTECTIVE COATINGS DIV	Brea	0.01	0.000	0.24	0.24	2000
55711	OB (2004)	SUNLAW COGENERATION PARTNERS I	Vernon	0.01	0.000	0.01	0.00	1996

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
124016	A	OAKITE PRODUCTS, INC.	La Mirada	0.00	0.000	0.14	0.08	2000
55714	OB	SUNLAW COGENERATION PARTNERS I	Vernon	0.00	0.000	0.01	0.00	1996
119127	OB (2009)	PRC DE SOTO INTERNATIONAL	Glendale	0.00	0.000	< 0.01	< 0.01	2002
809	OB (2011)	GARNER GLASS CO	Claremont	0.00	0.000	0.00	0.00	1996
1732	OB (1997)	INTL ELECTRONIC RESEARCH CORP	Burbank	0.00	0.000	0.00	0.00	1996
1746	A	UNITED ALLOYS INC	Los Angeles	0.00	0.000	0.00	0.00	1998
3084	A	CARDINAL INDUSTRIAL FINISHES INC	South El Monte	0.00	0.000	0.00	0.00	1996
3578	A	PRUDENTIAL OVERALL SUPPLY	Carson	0.00	0.000	0.00	0.00	2000
6163	A	OHLINE	Gardena	0.00	0.000	0.26	0.72	1996
6315	A	FLO-KEM, INC.	Rancho Dominguez	0.00	0.000	0.03	0.61	1999
7010	A	PRUDENTIAL OVERALL SUPPLY	Irvine	0.00	0.000	0.00	0.00	1995
8560	A	PRUDENTIAL OVERALL SUPPLY CO	Commerce	0.00	0.000	0.00	0.00	1995
8935	A	TRAIL RITE INC	Santa Ana	0.00	0.000	0.00	0.30	1996
10656	A	NEWPORT LAMINATES	Santa Ana	0.00	0.000	< 0.01	< 0.01	1996
19953	OB (2002)	RISTON KELLER INC	Irvine	0.00	0.000	< 0.01	0.01	1996
21544	OB	US GOVT, MARINE CORPS AIR STA @BLD	Tustin	0.00	0.000	0.00	0.00	2000
22092	A	WESTERN TUBE & CONDUIT CORP	Long Beach	0.00	0.000	0.02	0.62	1997
24647	A	J. B. I. INC	Compton	0.00	0.000	0.00	0.17	1999
40806	A	ASSOCIATED PLASTICS INC	Riverside	0.00	0.000	0.73	0.20	1997
51849	A	ELIMINATOR CUSTOM BOATS	Mira Loma	0.00	0.000	< 0.01	< 0.01	1995
70021	A	XERXES CORP (A DELAWARE CORP)	Anaheim	0.00	0.000	< 0.01	< 0.01	1996
144677	A	PRATT & WHITNEY ROCKETDYNE/RUBY ACQ ENT	Canoga Park	0.00	0.000	< 0.01	< 0.01	1996

Appendix A-1. Concluded.

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
149241	A	REGAL CULTURED MARBLE	Pomona	0.00	0.000	< 0.01	0.25	1995
800018	A	BAXTER HEALTH CARE CORP, BENTLEY DIV	Irvine	0.00	0.000	< 0.01	0.37	1994

Notes:

- (a) A = Active; I = Inactive; OB = Out of Business (with the year in which the facility went out of business)
- (b) The specific risk driver listed in this HRA is no longer in use & the resulting risk has been eliminated or minimized.
- (c) SCAQMD staff has requested these facilities to update their HRAs.
- (d) This includes risk attributable to the emergency DICE. The total facility risks excluding the emergency DICE are less than 10 in a million.

Appendix A-2 Health Risks from Facilities with an Approved HRA (listed by Facility ID)

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
550	A	LA CO., INTERNAL SERVICE DEPT	Los Angeles	0.32	0.000	0.02	0.00	2008
772	A	DEFT INC	Irvine	0.70	0.000	< 0.01	< 0.01	1995
809	OB (2011)	GARNER GLASS CO	Claremont	0.00	0.000	0.00	0.00	1996
1208	OB (2008)	MICROSEMI CORPORATION	Santa Ana	2.30	0.004	0.01	0.01	2001
1226	A	HYATT DIE CAST & ENGINEERING CORP	Cypress	6.24	0.008	< 0.01	0.12	1996
1634	OB (2005)	STEELCASE INC, WESTERN DIV	Tustin	0.50	0.000	< 0.01	< 0.01	1995
1732	OB (1997)	INTL ELECTRONIC RESEARCH CORP	Burbank	0.00	0.000	0.00	0.00	1996
1744	A	KIRKHILL RUBBER CO	Brea	8.70	0.001	0.20	0.06	2007
1746	A	UNITED ALLOYS INC	Los Angeles	0.00	0.000	0.00	0.00	1998
1947	A	THUMS LONG BEACH CO, UNIT NO.01	Long Beach	1.70	0.170	< 0.01	0.14	1996
1992	OB (2009)	PRUDENTIAL OVERALL SUPPLY	Van Nuys	0.10	0.000	0.00	0.00	1997
2526	A	CHEVRON USA INC	Van Nuys	1.25	0.007	< 0.01	0.01	1996
2605	A	3M CO	Northridge	1.98	0.002	0.40	0.38	1996
2613	A	US GOVT, NAVY DEPT, NAVAL WEAPONS STN	Seal Beach	2.90	0.004	0.11	0.00	2002
2638	A	OCCIDENTAL COLLEGE	Los Angeles	1.50	0.002	0.07	0.01	2007
2680	A	LA CO., SANITATION DISTRICT	Whittier	8.57	n/a	0.00	0.03	1999
2852	A	WALT DISNEY CO	Burbank	6.40	0.031	0.02	0.02	1997
3084	A	CARDINAL INDUSTRIAL FINISHES INC	South El Monte	0.00	0.000	0.00	0.00	1996
3093	A	LA CO., OLIVE VIEW/UCLA MEDICAL CENTER	Sylmar	0.53	0.000	0.00	0.02	1999

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
3134	A	THUMS LONG BEACH CO, UNIT NO.05	Long Beach	0.84	0.000	< 0.01	< 0.01	1996
3578	A	PRUDENTIAL OVERALL SUPPLY	Carson	0.00	0.000	0.00	0.00	2000
3609	I	AL'S PLATING CO INC	Los Angeles	7.81	n/a	0.26	0.17	1999
3950	OB (2005)	CROWN CORK & SEAL COMPANY, INC.	La Mirada	4.60	0.000	0.00	0.11	1997
3968	A	TABC INC.	Long Beach	1.35	0.002	0.05	0.22	1999
4477	A	SOUTHERN CALIFORNIA EDISON COMPANY	Avalon	6.3	0.02	0.01	0.02	2012
5723	A	AEROCHEM INC	Orange	6.70	0.004	0.02	0.10	1999
5887	A	ANABOLIC INC	Irvine	2.70	0.154	0.03	0.00	1997
6163	A	OHLINE	Gardena	0.00	0.000	0.26	0.72	1996
6281	I	US GOVT,MARINE CORPS AIR STATION,EL TORO	El Toro	0.51	0.000	< 0.01	< 0.01	1996
6315	A	FLO-KEM, INC.	Rancho Dominguez	0.00	0.000	0.03	0.61	1999
6384	A	LA CO., RANCHO LOS AMIGOS MEDICAL CENTER	Downey	3.14	0.082	0.01	0.06	1999
6459	OB (2002)	HONEYWELL INTERNATIONAL INC.	Vernon	4.13	n/a	0.01	0.01	1999
6643	A	TECHNICOLOR, INC	N. Hollywood	6.53	0.003	0.03	0.08	2007
6670	OB (2006)	TRU-CUT, INC.	Los Angeles	< 1	0.000	0.00	0.04	2002
7010	A	PRUDENTIAL OVERALL SUPPLY	Irvine	0.00	0.000	0.00	0.00	1995
7416	A	PRAXAIR INC	Wilmington	0.11	0.000	0.04	0.03	2001
7427	A	OWENS-BROCKWAY GLASS CONTAINER	Vernon	3.60	0.000	0.01	0.06	2001
7730	A	E R CARPENTER CO INC	Riverside	0.96	0.000	0.03	1.34	2003
7949	A	CUSTOM FIBERGLASS MFG CO/CUSTOM HARDTOP	Long Beach	2.50	0.078	< 0.01	< 0.01	1995
8015	A	ANADITE INC	South Gate	3.48	n/a	0.63	0.78	2003
8309	A	CAMBRO MANUFACTURING CO	Huntington Beach	1.70	0.002	0.00	0.15	2000

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
8547	A	QUEMETCO INC.	Industry	4.4	0.023	0.086	0.74	2010
8560	A	PRUDENTIAL OVERALL SUPPLY CO	Commerce	0.00	0.000	0.00	0.00	1995
8570	A	EMBEE INC	Santa Ana	6.62	n/a	0.21	0.58	2001
8578	OB (2002)	ASSOCIATED CONCRETE PROD. INC	Santa Ana	5.80	n/a	0.13	0.57	1999
8820	A	REULAND ELECTRIC CO. H.BRITTON LEES	Industry	3.70	0.002	< 0.01	< 0.01	1996
8935	A	TRAIL RITE INC	Santa Ana	0.00	0.000	0.00	0.30	1996
9114	I	SOMITEX PRINTS OF CALIFORNIA	Industry	3.70	n/a	0.06	< 0.01	1996
9163	A	INLAND EMPIRE UTILITIES AGENCY	Ontario	3.44	0.001	0.25	0.01	2007
9668	A	DELUXE LABORATORIES INC, DELUXE LABORATOR	Hollywood	2.10	0.000	0.01	0.02	2000
10005	A	ELECTRONIC CHROME GRINDING CO, INC.	Santa Fe Springs	2.96	0.010	0.24	0.06	2001
10245	A	LA CITY SANITATION BUREAU, TERMINAL ISLAN	San Pedro	1.83	0.005	0.02	0.03	2000
10510	OB (2009)	GREGG INDUSTRIES INC.	El Monte	9.40	0.010	0.60	0.56	2008
10656	A	NEWPORT LAMINATES	Santa Ana	0.00	0.000	< 0.01	< 0.01	1996
11142	OB (2003)	KEYSOR-CENTURY CORP	Saugus	17.00	n/a	0.54	0.06	2000
11192	A	HI-SHEAR CORP	Torrance	4.80	0.002	0.04	0.02	2008
11435	A	THE PQ CORP	South Gate	3.00	n/a	0.00	0.01	1998
11726	I	GE ENGINE SERVICES	Ontario	6.46	n/a	0.12	0.59	1999
12660	OB (2009)	GOLDSHIELD FIBERGLASS, INC, PLANT #58	Fontana	0.40	0.000	0.01	0.05	1994
13920	A	ST. JOSEPH HOSPITAL	Orange	7.73	0.014	0.79	0.26	2008
14146	A	MAC GREGOR YACHT CORP	Costa Mesa	5.50	n/a	0.00	0.10	1998
14495	A	VISTA METALS CORP.	Fontana	19.80	0.057	0.01	0.29	2008
14502	A	VERNON UTILITY DEPARTMENT	Vernon	1.98	0.000	0.01	0.01	2007

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
15504	A	SCHLOSSER FORGE CO.	Rancho Cucamonga	9.50	0.067	1.59	1.11	2003
15647	A	CUSTOM ENAMELERS INC	Fountain Valley	0.55	0.000	0.11	0.02	2000
15736	I	HENRY CO	Huntington Park	8.50	0.026	0.00	0.00	2000
16044	I	SPECIALTY ORGANICS INC	Irwindale	0.10	0.000	0.00	0.23	1997
16264	A	INTL COATINGS CO INC	Cerritos	0.17	0.000	0.00	0.00	1999
16642	A	ANHEUSER-BUSCH INC.(LA BREWERY)	Van Nuys	2.70	n/a	0.02	0.13	1999
16660	A	MC DONNELL DOUGLAS SPACE SYS CO.	Huntington Beach	2.89	0.001	0.23	0.05	2007
17301	A	OR CO., SANITATION DIST	Fountain Valley	6.60	0.032	0.39	0.34	2007
17325	A	ACE CLEARWATER ENTERPRISES	Paramount	3.70	0.001	0.01	0.00	2002
18188	A	PLASMA TECHNOLOGY INC.	Torrance	2.40	0.000	0.11	0.00	2007
18294	A	NORTHROP CORP., AIRCRAFT DIV WEST	El Segundo	7.60	n/a	0.13	0.05	2000
18378	A	GRUBER SYSTEMS, INC.	Valencia	0.83	0.000	0.14	0.10	2004
18396	A	SPRAYLAT CORPORATION	Los Angeles	3.2	0.000	0.74	< 0.01	2012
18439	OB (2006)	ACE PLATING CO INC	Los Angeles	4.08	n/a	0.58	0.19	1998
18452	A	UCLA (REGENTS OF UC) (c)	Los Angeles	2.91	n/a	0.01	0.11	1999
18508	A	AIR PROD & CHEM INC, PACIFIC ANCHOR CHEM	Los Angeles	2.40	0.000	0.10	0.81	1999
18648	OB (2006)	CROWN CITY PLATING COMPANY	El Monte	11.99	0.130	0.39	0.13	2000
18931	A	TAMCO	Rancho Cucamonga	2.04	0.017	0.01	0.24	2001
18989	A	BOWMAN PLATING CO. INC.	Compton	14.20	0.021	< 0.01	< 0.01	2007
18990	A	LIFE PAINT COMPANY	Santa Fe Springs	0.41	0.000	0.02	0.00	2001
19953	OB (2002)	RISTON KELLER INC	Irvine	0.00	0.000	< 0.01	0.01	1996
19989	OB (2000)	PARKER HANNIFIN AEROSPACE CORP	Irvine	0.27	0.000	0.01	0.00	1999

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
20144	OB (2000)	CANON BUSINESS MACHINES INC	Costa Mesa	0.05	0.000	0.00	0.07	1999
20197	A	LAC/USC MEDICAL CENTER	Los Angeles	7.50	0.031	0.70	0.38	2007
20280	A	METAL SURFACES INC.	Bell Gardens	6.8	0.000	0.88	0.34	2011
20375	A	PRUDENTIAL OVERALL SUPPLY	Riverside	0.96	0.000	0.03	0.08	1997
21544	OB	US GOVT, MARINE CORPS AIR STA @BLD	Tustin	0.00	0.000	0.00	0.00	2000
21615	OB (2004)	OPTICAL RADIATION CORP	Azusa	8.08	n/a	0.17	0.10	1998
21895	A	AC PRODUCTS, INC.	Placentia	0.53	0.000	0.00	0.00	2003
22092	A	WESTERN TUBE & CONDUIT CORP	Long Beach	0.00	0.000	0.02	0.62	1997
22229	A	PROCESSES BY MARTIN, INC.	Lynwood	0.04	0.000	0.00	0.00	2002
22373	OB (2011)	CONTAINER CORPORATION OF AMERICA	Los Angeles	0.74	0.000	< 0.01	< 0.01	1996
22410	OB (2012)	PALACE PLATING	Los Angeles	5.60	n/a	0.73	0.38	2004
22467	A	LEFIELL MFG CO	Santa Fe Springs	1.70	0.000	0.75	0.17	2000
22551	A	THUMS LONG BEACH CO, UNIT NO.04	Long Beach	1.20	0.000	0.00	0.01	2000
22556	A	THUMS LONG BEACH CO, UNIT NO.02	Long Beach	0.80	0.000	< 0.01	< 0.01	1996
23559	OB (2005)	JOHNSON CONTROLS BATTERY GROUP INC	Fullerton	1.80	n/a	0.01	0.08	2001
24060	OB (2011)	TOMKINS INDUSTRIES INC-LASCO PRODS GROUP	Anaheim	0.72	0.000	< 0.01	0.02	1996
24520	A	LA CO, SANITATION DISTRICTS	Rolling Hills Estates	0.29	0.000	< 0.01	< 0.01	1998
24647	A	J. B. I. INC	Compton	0.00	0.000	0.00	0.17	1999
24756	A	CRANE CO, HYDRO-AIRE DIV	Burbank	0.63	0.000	0.04	0.05	1997
24812	A	FARMER BROS CO	Torrance	0.09	0.000	0.00	0.02	1999
24957	A	GLENDALE CITY	Glendale	0.59	0.000	0.00	0.02	1999
25012	A	AMADA MFG AMERICA, INC.	La Mirada	<0.1	0.000	0.00	0.00	2002

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
25070	A	LA CO., SANITATION DISTRICT (c)	Whittier	1.46	0.003	0.33	0.08	2009
25440	OB (2010)	ROBERTSHAW CONTROLS CO, GRAYSON CONTROLS	Long Beach	2.70	0.003	0.00	0.96	1998
25638	A	BURBANK CITY, PUB SERV DEPT	Burbank	0.33	0.000	0.33	0.01	1996
27701	OB (2008)	CADDOCK ELECTRONICS, INC.	Riverside	2.70	n/a	0.02	0.06	2002
29110	A	OR. CO., SANITATION DIST	Huntington Beach	10.70 (d)	0.210	1.78	0.48	2007
34764	A	CADDOCK ELECTRONICS, INC.	Riverside	6.70	0.034	0.01	0.09	2002
35302	A	OWENS CORNING FIBERGLASS CORP. (c)	Compton	14.00	0.015	0.07	0.10	2000
35483	A	WARNER BROTHERS STUDIO FACILITIES	Burbank	2.60	0.008	0.10	0.26	1997
37336	A	COMMERCE REFUSE TO ENERGY FACILITY	Commerce	0.12	0.00	0.01	0.00	2010
37507	A	TROJAN BATTERY COMPANY	Santa Fe Springs	2.55	0.000	1.08	1.27	2012
37603	A	POLYCARBON INC	Valencia	7.80	0.012	0.01	0.36	1998
38971	A	RICOH ELECTRONICS INC	Irvine	5.60	0.007	0.02	0.39	1995
39388	A	THUMS LONG BEACH CO, UNIT NO.03	Long Beach	0.50	0.000	< 0.01	< 0.01	1996
40806	A	ASSOCIATED PLASTICS INC	Riverside	0.00	0.000	0.73	0.20	1997
40829	A	HAWKER PACIFIC INC	Sun Valley	2.07	0.000	0.04	0.09	2009
41229	A	LUBECO, INC.	Long Beach	14.02	n/a	0.00	0.12	2003
42514	A	LA CO., SANITATION DIST., CALABASAS LANDFILL	Agoura	6.78	0.00	0.02	< 0.01	2010
42633	A	LA CO., SANITATION DIST, Spadra Landfill	Walnut	1.20	0.002	< 0.01	< 0.01	1996
42676	A	AES PLACERITA, INC.	Newhall	0.11	0.000	0.08	0.01	2003
42922	OB (2006)	CMC PRINTED BAG INC	Whittier	9.00	n/a	< 0.01	< 0.01	1995
43201	A	SNOW SUMMIT SKI CORP	Big Bear Lake	5.53	0.003	0.01	0.01	2007
43436	A	TIMCO	Fontana	0.43	0.000	0.00	0.43	1997

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
44454	A	STRUCTURAL COMPOSITES INDUSTRIES, INC.	Pomona	8.60	0.001	0.01	0.23	2002
44577	A	LONG BEACH CITY, SERRF PROJECT (c)	Long Beach	0.4	0.000	0.02	0.08	2011
45262	A	LA CO, SANITATION DISTRICT UNIT NO.02	Glendale	6.17	n/a	0.01	0.05	1998
45448	A	GAS RECOVERY SYSTEMS, INC.	Newport Coast	20.1	0.18	0.56	0.32	2009
45489	A	GUIDANT CORP	Temecula	3.80	0.006	1.31	0.01	2002
45938	A	E.M.E. INC/ELECTRO MACHINE & ENGINEERING	Compton	0.04	0.000	0.00	< 0.01	2001
46268	A	CALIFORNIA STEEL INDUSTRIES, INC.	Fontana	2.74	0.016	0.16	0.31	1995
47056	OB (2005)	MYERS CONTAINER CORP	Huntington Park	0.90	0.000	0.23	2.00	2002
48274	OB	FENDER MUSICAL INST	Corona	2.81	0.004	0.03	0.37	1997
48300	A	PRECISION TUBE BENDING	Santa Fe Springs	0.15	0.000	0.00	0.00	2002
48323	A	SIGMA PLATING COMPANY	La Puente	13.84	0.017	0.01	0.74	2004
49387	A	UNIV CAL RIVERSIDE	Riverside	7.13	0.220	0.00	0.04	1999
51620	A	WHEELABRATOR NORWALK ENERGY COMPANY	Norwalk	0.02	0.000	0.01	0.02	1996
51849	A	ELIMINATOR CUSTOM BOATS	Mira Loma	0.00	0.000	< 0.01	< 0.01	1995
52517	A	REXAM PLC, REXAM BEVERAGE CAN COMPANY	Chatsworth	2.93	0.0076	0.73	0.1	2009
54424	A	L & L CUSTOM SHUTTERS	Placentia	5.50	0.000	0.15	0.21	2001
54627	A	HICKORY SPRINGS OF CAL INC	Commerce	1.95	n/a	0.01	0.48	1998
55449	A	BKK CORPORATION, LANDFILL DIVISION GNRL	W. Covina	6.90	n/a	0.01	0.10	2000
55711	OB (2004)	SUNLAW COGENERATION PARTNERS I	Vernon	0.01	0.000	0.01	0.00	1996
55714	OB	SUNLAW COGENERATION PARTNERS I	Vernon	0.00	0.000	0.01	0.00	1996
57094	A	G S ROOFING PRODUCTS CO INC (c)	Wilmington	7.00	n/a	0.01	0.01	2000
61160	OB (2010)	GE ENGINE SERVICES	Ontario	0.50	0.000	0.70	0.01	2003

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
62679	OB (2009)	KOP-COAT INC	Vernon	1.33	n/a	0.00	0.49	1997
70021	A	XERXES CORP (A DELAWARE CORP)	Anaheim	0.00	0.000	< 0.01	< 0.01	1996
79682	A	RAMCAR BATTERIES INC	Commerce	2.43	n/a	0.04	0.17	1998
82512	A	BREA CANYON OIL CO	Wilmington	1.70	n/a	0.01	< 0.01	1996
82513	A	BREA CANYON OIL COMPANY INC	Harbor City	1.40	n/a	0.02	< 0.01	1996
83102	A	LIGHT METALS	Industry	4.50	0.008	0.04	2.70	2002
93346	I	COOPER DRUM CO	S. El Monte	4.30	n/a	0.09	0.16	1997
94872	A	METAL CONTAINER CORP.	Mira Loma	0.08	0.000	0.39	0.36	2002
99119	A	INTERPLASTIC CORP	Hawthorne	0.28	0.000	0.05	0.32	1999
99773	A	CYTEC FIBERITE INC.	Anaheim	2.20	0.000	0.04	0.19	2000
101380	OB (2005)	GENERAL DYNAMICS OTS (DOWNEY) INC	Downey	9.80	n/a	0.01	0.05	2000
101977	A	AMERIGAS PROPANE L.P.	Long Beach	4.70	0.002	0.59	0.97	1998
103659	OB (2007)	FOUR MEDIA CO.	Burbank	2.22	n/a	0.61	0.04	2004
103888	OB (2010)	A J INDUSTRIES INC, SARGENT-FLETCHER CO	El Monte	4.90	0.280	0.16	0.02	1999
105598	A	SENIOR FLEXONICS INC	Burbank	3.64	0.007	0.98	0.49	2001
106009	A	VENOCO INC.	Beverly Hills	1.16	n/a	0.05	0.00	2005
106797	OB (2005)	SAINT-GOBAIN CONTAINERS LLC	Los Angeles	9.85	n/a	0.00	0.07	2000
106838	A	VALLEY-TODECO, INC	Sylmar	3.70	0.000	0.20	0.20	2000
107149	A	MARKLAND MANUFACTURING INC.	Santa Ana	0.26	0.000	0.06	0.12	2007
107350	OB (2007)	N O-RING CORPORATION	Downey	1.53	n/a	0.00	0.01	2001
108701	OB (2007)	BALL FOSTER GLASS CONTAINER CO.	El Monte	7.30	0.056	0.09	0.07	2000
109198	I	TORCH OPERATING CO. (STEARNS GAS CO)	Brea	4.97	n/a	0.05	0.01	2001

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
110924	OB (2008)	WESTWAY TERMINAL COMPANY	San Pedro	8.00	0.370	0.33	0.51	1997
111110	A	BRISTOL FIBERLITE IND	Santa Ana	0.08	0.000	0.00	0.02	1995
111415	A	VAN CAN CO, SUBSIDIARY OF VAN CAMP SEAFO	Fontana	0.80	0.000	< 0.01	0.08	1996
112192	OB (2005)	CONSOLIDATED DRUM RECONDITIONING CO. INC.	South Gate	0.31	0.000	0.00	0.00	1997
113170	A	SANTA MONICA HOSPITAL MEDICAL CTR UNIT 2 (b)	Santa Monica	7.60	0.000	0.17	0.01	1997
114801	A	RHODIA INC.	Carson	0.11	0.000	0.02	0.05	2006
114927	A	ANVIL CASES / A CALZONE COMPANY	Industry	19.00	n/a	0.13	0.08	2002
115240	A	MARCHEM TECHNOLOGIES, LONZA INC	Long Beach	4.30	0.005	0.28	0.01	2001
115389	A	SO CAL EDISON CO	Huntington Beach	0.11	0.000	0.00	0.00	1999
115394	A	AES ALAMITOS, LLC	Long Beach	0.63	0.000	0.00	0.02	1999
115536	A	AES REDONDO BEACH, LLC	Redondo Beach	0.40	0.000	0.01	0.04	1998
115586	OB (2011)	SUNDANCE SPAS	Chino	0.02	0.000	0.05	0.43	1996
115663	A	EL SEGUNDO POWER, LLC	El Segundo	0.34	0.000	0.00	0.01	2000
116868	I	EQUILON ENTERPRISES,LLC	Rialto	2.88	n/a	0.00	0.04	1999
117560	A	EQUILON ENTER, LLC-SHELL OIL PROD. US	Wilmington	7.30	n/a	0.03	0.07	1998
117785	OB (2011)	BALL METAL BEVERAGE CONTAINER CORP.	Torrance	0.04	0.000	0.21	0.91	2001
118406	A	CARSON COGENERATION COMPANY	Carson	3.86	n/a	0.16	0.01	2007
119127	OB (2009)	PRC DE SOTO INTERNATIONAL	Glendale	0.00	0.000	< 0.01	< 0.01	2002
119907	A	BERRY PETROLEUM	Santa Clarita	1.60	n/a	0.20	0.73	1999
119920	OB (2006)	ALUMINUM COMPANY OF AMERICA	Vernon	1.60	n/a	0.30	0.30	1996
120088	A	BREITBURN ENERGY CO.	Santa Fe Springs	0.79	0.000	0.01	0.04	1998
122295	OB (2007)	FALCON FOAM, A DIV OF ALTAS ROOFING	Los Angeles	0.40	0.000	0.00	0.00	1999

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
122300	OB (2010)	BASF CORPORATION	Colton	0.28	0.000	0.56	0.02	2002
122822	OB	CONSOLIDATED FILM INDUSTRIES	Hollywood	21.00	n/a	0.11	0.40	2000
123087	A	INDALEX WEST INC.	Industry	1.27	n/a	0.00	0.03	1999
124016	A	OAKITE PRODUCTS, INC.	La Mirada	0.00	0.000	0.14	0.08	2000
124506	A	BOEING ELECTRON DYNAMIC DEVICES	Torrance	4.17	n/a	0.46	0.07	1995
124805	A	EXIDE TECHNOLOGIES	Commerce	0.33	0.000	0.00	0.04	2000
124806	OB (2004)	EXIDE TECHNOLOGIES	Industry	1.00	n/a	0.00	0.04	1999
124838	A	Exide Technologies	Vernon	156	10	3.8	63	2013*
124838	A	EXIDE TECHNOLOGIES (c)	Vernon	2.30	0.010	0.53	0.04	1999
125281	OB (2004)	MODERN PLATING ALCO CAD-NICKEL PLATING	Los Angeles	8.20	n/a	0.10	0.01	1997
126060	A	STERIGENICS US, LLC	Ontario	3.80	0.000	0.00	0.01	2007
126191	A	ION BEAM APPLICATIONS INC.	Los Angeles	3.29	0.000	< 0.01	0.00	1996
126197	A	ION BEAM APPLICATIONS INC.	Los Angeles	3.56	0.000	< 0.01	0.01	1996
126501	A	VOUGHT AIRCRAFT INDUSTRIES (b)	Hawthorne	19.70	n/a	0.64	0.24	2001
126536	A	CONSOLIDATED FOUNDRIES, POMONA	Pomona	1.50	n/a	0.00	0.02	1999
126544	A	PAC FOUNDRIES INDUSTRY	Industry	1.27	n/a	0.59	0.09	1996
126964	A	EDWARDS LIFESCIENCES LLC	Irvine	0.75	0.000	< 0.01	0.00	1995
127568	A	ENGINEERED POLYMER SOLUTION	Montebello	3.53	0.000	0.05	0.48	2000
131003	A	BP WEST COAST PRODUCTS LLC	Carson	7.28	n/a	0.30	0.08	2000
131249	A	BP WEST COAST PRODUCTS LLC (c)	Wilmington	4.30	0.180	0.08	0.18	1995
133405	OB (2008)	BODYCOTE INC./BODYCOTE THERMAL PROCESSING	Los Angeles	2.36	n/a	0.03	0.20	1999
133660	A	HAYDEN INDUSTRIAL PRODUCTS	Corona	1.60	n/a	0.82	0.44	1998

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
133987	A	PLAINS EXPLORATION & PRODUCTION CO. LP	Inglewood	2.65	n/a	0.01	0.07	1997
134018	A	INDUSTRIAL CONTAINER SERVICES	Montebello	5.24	n/a	0.57	0.23	2000
134931	A	ALCOA GLOBAL FASTENERS, INC.	Fullerton	0.61	0.000	1.90	0.02	2003
134943	A	ALCOA GLOBAL FASTERNERS, INC.	Torrance	2.61	n/a	0.55	0.04	2008
136148	A	E/M CORP, GREAT LAKES CHEMICAL CORP SUB	N Hollywood	5.80	0.000	0.28	0.57	1998
136395	A	THOMASON MECHNICAL CORP, BENDER MACHINE	Vernon	4.40	0.001	0.99	0.02	2002
137517	I	RELIANT ENERGY ETIWANDA,LLC	Etiwanda	2.67	0.160	0.01	0.17	2000
140499	A	AMERESCO HUNTINGTON BEACH, LLC	Huntington Beach	7.00	n/a	< 0.01	< 0.01	1995
140811	A	DUCOMMUN AEROSTRUCTURES INC	Monrovia	3.50	0.007	0.01	0.01	2002
140961	A	GKN AEROSPACE TRANSPARENCY SYS INC	Garden Grove	6.00	n/a	< 0.01	0.49	1996
141585	A	RESOLUTION SPECIALTY MATERIALS, LLC	Lynwood	6.50	0.150	0.13	1.60	1995
142267	A	FS PRECISION TECH LLC	Rancho Dominguez	2.03	n/a	0.08	0.15	2001
144677	A	PRATT & WHITNEY ROCKETDYNE/RUBY ACQ ENT	Canoga Park	0.00	0.000	< 0.01	< 0.01	1996
145368	A	SEMMATERIALS LP	Fontana	0.02	0.000	0.33	0.01	1999
146570	OB (2009)	ROHM AND HAAS CHEMICALS LLC	La Mirada	6.20	n/a	0.54	0.76	1999
148925	A	CHERRY TEXTRON	Santa Ana	9.70	n/a	0.07	0.15	1999
149241	A	REGAL CULTURED MARBLE	Pomona	0.00	0.000	< 0.01	0.25	1995
151415	A	AERA ENERGY LLC	Brea	3.40	0.020	0.05	0.00	1999
151798	A	TESORO REFINING AND MARKETING CO.	Carson	2.77	n/a	0.14	0.00	1999
151899	A	MEDALLION CALIFORNIA PROPERTIES CO	Newhall	3.51	n/a	0.02	0.20	2000
151984	A	TESORO REFINING AND MARKETING CO.	Wilmington	2.75	0.002	0.00	0.01	2000
152033	A	TESORO REFINING AND MARKETING CO.	Long Beach	2.39	n/a	0.00	0.01	1999

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
152054	A	BREA CANYON OIL COMPANY, INC.	Brea	1.14	n/a	< 0.01	0.12	1996
152501	A	PRECISION SPECIALTY METALS, INC.	Los Angeles	0.45	0.000	0.38	0.15	2001
153546	A	HUCK INTERNATIONAL INC	Carson	3.30	0.017	0.00	0.02	1999
154540	A	ARROWHEAD BRASS PROD. INC	Los Angeles	5.70	n/a	0.26	0.04	1995
155828	A	GARRETT AVIATION SERVICES INC.	Los Angeles	9.33	n/a	0.91	0.10	2005
156741	A	HARBOR COGENERATION CO.	Wilmington	0.05	0.000	0.02	0.00	2002
160916	A	FOAMEX INNOVATIONS, INC.	Orange	0.18	0.000	0.39	0.43	1994
161142	A	FOAMEX L.P.	Compton	0.25	0.000	0.00	0.01	2010
169990	A	SPS TECHNOLOGIES, LLC	Gardena	8.91	0.010	0.09	0.06	1999
800003	A	HONEYWELL INTERNATIONAL INC	Torrance	1.77	n/a	0.00	0.01	1999
800007	OB (2005)	ALLIED SIGNAL INC, El Segundo	El Segundo	3.58	n/a	0.02	0.53	2000
800009	OB	AMERON PROTECTIVE COATINGS DIV	Brea	0.01	0.000	0.24	0.24	2000
800018	A	BAXTER HEALTH CARE CORP, BENTLEY DIV	Irvine	0.00	0.000	< 0.01	0.37	1994
800022	A	CALNEV PIPE LINE CO	Bloomington	5.90	n/a	0.00	0.07	1999
800026	A	ULTRAMAR INC.	Wilmington	7.2	0.18	0.70	0.23	2012
800030	A	CHEVRON U.S.A. INC	El Segundo	2.73	n/a	0.29	0.13	2001
800032	A	CHEVRON U.S.A. INC	Montebello	7.46	0.143	0.01	0.18	1999
800035	OB (2011)	CONTINENTAL AIRLINES INC	Los Angeles	2.83	n/a	0.01	0.13	1997
800037	A	DEMENNO/KERDOON	Compton	4.9	0.01	< 0.01	0.02	2009
800038	A	DOUGLAS AIRCRAFT CO	Long Beach	4.80	n/a	0.15	0.11	1999
800041	OB (2009)	DOW U.S.A.	Torrance	4.40	n/a	0.09	0.01	2000
800056	A	GATX STORAGE TERMINALS CORP	San Pedro	2.30	n/a	0.00	0.03	1997

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
800057	A	GATX TANK STORAGE TERMINAL CORP	Carson	8.50	n/a	0.01	0.06	1999
800063	A	GROVER PROD. CO	Los Angeles	3.29	0.039	0.88	0.07	2002
800066	A	НІТСО	Gardena	6.40	0.310	0.34	0.05	1998
800067	A	BOEING SATELLITE SYSTEMS INC	El Segundo	6.22	n/a	0.03	0.08	2000
800074	A	LA CITY, DWP HAYNES GENERATING STATION	Long Beach	0.17	0.000	0.00	0.01	2000
800075	A	LA CITY, DWP SCATTERGOOD GENERATING STN.	Playa del Rey	0.03	0.000	0.00	0.00	2000
800079	A	PETRO DIAMOND TERMINAL CO	Long Beach	8.30	n/a	0.00	0.16	1998
800089	A	EXXON-MOBIL OIL CORPORATION	Torrance	8.90	0.380	0.06	0.05	2001
800091	A	MOBIL OIL CORP	Anaheim	0.72	0.000	0.01	0.00	1999
800113	A	ROHR IND INC	Riverside	7.20	0.011	0.86	0.02	2007
800127	A	THE GAS CO.	Montebello	0.99	0.000	0.01	0.01	2009
800129	A	SO PACIFIC PIPELINES INC	Rialto	5.75	n/a	< 0.01	0.02	1996
800149	A	US BORAX & CHEM CORP	Wilmington	9.46	n/a	0.00	0.03	2000
800150	A	US GOVT., AF DEPT, MARCH AFB	Riverside	7.35	0.020	0.31	0.01	2008
800168	A	PASADENA CITY, DWP	Pasadena	0.15	0.000	0.70	0.00	1996
800171	A	MOBIL OIL CO	Vernon	5.33	0.016	0.07	0.02	1997
800181	A	CALIFORNIA PORTLAND CEMENT CO (c)	Colton	2.00	0.001	< 0.01	0.39	1996
800182	A	RIVERSIDE CEMENT CO. (c)	Riverside	7.80	n/a	0.05	0.13	2001
800183	A	PARAMOUNT PETROLEUM CORPORATION	Paramount	9.61	n/a	0.02	0.01	2002
800189	A	DISNEYLAND RESORT	Anaheim	3.25	0.030	0.11	0.06	2009
800193	A	LA CITY, DWP; VALLEY STM PLANT	Sun Valley	0.15	0.000	0.25	0.00	1999
800196	A	AMERICAN AIRLINES, INC.	Los Angeles	5.40	0.190	0.86	0.08	2005

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
800198	A	ULTRAMAR INC	Wilmington	5.90	n/a	0.01	0.09	1999
800202	A	UNIVERSAL STUDIOS INC	Universal City	2.40	n/a	< 0.01	0.03	1996
800214	A	LA CITY, HYPERION TREATMENT PLANT (c)	Playa del Rey	7.59	0.027	0.06	0.01	1999
800236	A	LA CO., SANITATION DIST UNIT NO.01	Carson	7.20	0.058	0.17	0.12	2007
800264	A	EDGINGTON OIL, CO.	Long Beach	4.78	0.001	0.01	0.01	2002
800267	A	TRIUMPH PROCESSING, INC.	Lynwood	0.48	0.000	0.12	0.36	2012
800278	A	SFPP, L.P.	Carson	2.43	n/a	0.00	0.10	1999
800279	A	SFPP, L.P.	Orange	5.85	n/a	0.00	0.24	1999
800288	A	UNIV CAL IRVINE UNIT NO 01	Irvine	5.64	n/a	0.00	0.07	1996
800301	A	ITT GILFILLAN UNIT NO.01	Van Nuys	0.86	0.000	0.12	0.19	1998
800318	A	GRISWOLD INDUSTRIES	Costa Mesa	9.51	0.009	0.10	0.01	2001
800320	A	AMVAC CHEMICAL CORP.	Los Angeles	0.04	0.000	0.07	0.34	2004
800325	A	TIDELANDS OIL PRODUCTION CO (L.B. Oil Co)	Long Beach	1.90	n/a	0.07	0.62	1999
800343	A	BOEING SATELLITE SYSTEMS, INC.	El Segundo	0.30	0.000	< 0.01	0.21	1996
800362	A	CONOCO-PHILLIPS CO.	Carson	6.6	0.11	0.03	0.26	2011
800363	A	CONOCO-PHILLIPS CO.	Wilmington	23.2	0.29	0.13	0.73	2013*
800372	A	EQUILON ENTERPRISES,LLC	Carson	6.90	0.030	0.44	0.07	2001
800387	A	CALIFORNIA INSTITUTE OF TECHNOLOGY	Pasadena	2.40	n/a	0.05	0.00	2007
800395	A	BP WEST COAST PRODUCTS, ARCO CARSON	Carson	3.00	0.001	< 0.01	0.02	1994
800396	A	BP WEST COAST PRODUCTS, ARCO VINVALE	South Gate	9.00	0.023	< 0.01	0.03	1994
800408	A	TRW INC.	Manhattan Beach	1.37	n/a	0.92	0.10	1998
800409	A	TRW INC.	Redondo Beach	5.48	n/a	0.45	0.24	1998

Appendix A-2. Concluded.

Facility ID	Facility Status (a)	Facility Name	City	Cancer Risk in a million	Cancer Burden	Acute Hazard Index	Chronic Hazard Index	HRA Approved (year)
800431	A	PRATT & WHITNEY ROCKETDYNE, INC.	Canoga Park	8.70	0.130	< 0.01	< 0.01	1995
800436	A	TESORO REFINING AND MARKETING CO	Wilmington	7.80	n/a	0.33	0.45	2000

^{*}Since most of the HRA review was conducted in 2012, these facilities were included in this table for informational purposes.

Notes:

- (a) A = Active; I = Inactive; OB = Out of Business (with the year in which the facility went out of business)
- (b) The specific risk driver listed in this HRA is no longer in use & the resulting risk has been eliminated or minimized.
- (c) SCAQMD staff has requested these facilities to update their HRAs.
- (d) This includes risk attributable to the emergency DICE. The total facility risks excluding the emergency DICE are less than 10 in a million.

Appendix B

Rule Adoption and Amendments in 2010

<u>Amended Rule 1470 – Requirements for Stationary Diesel-Fueled Internal</u> Combustion and Other Compression Ignition Engines

Rule 1470 was amended to remove NOx emission limits for new emergency standby diesel-fueled engines due to the feasibility of control equipment. PM requirements were primarily limited to new emergency standby engines rated at greater than 175 bhp and located at or near sensitive receptors. Other amendments are also proposed to directly reference the ATCM or to coincide with the ATCM amendments. Other minor amendments were included to reflect changes made to the state ATCM for stationary compression-ignition engines. [May 2012]

Rules 1401 - New Source Review to Toxic Air Contaminants and 1402 - Control of Toxic Air Contaminants from Existing Sources

This was not an actual rule amendment because no changes were made to the rules themselves – only the Rules 1401 and 212 Guidelines. Amended health risk values were approved by OEHHA for nickel and nickel compounds; polychlorinated biphenyls; polychlorinated dibenzo-p-dioxins; and polychlorinated dibenzofurans. The Board Letter served to notify the Board of the changes and provided the analyses required by Rules 1401 and 1402. [December 2012]

The SCAQMD is continuing to implement the Clean Communities Plan. Please refer to the following website for more information: http://www.aqmd.gov/aqmp/CCP.html).

Appendix C

Trends in Ambient Air Toxics in the South Coast Air Basin and Vicinity

The CARB has maintained toxics monitoring network since the late 1980's. ^[1] In this appendix, trends in cancer risks are illustrated for sites in the South Coast Air Basin (Basin) and vicinity. Health risk levels for the most recent three-year period (i.e., 2009 to 2011) are also shown. Looking at this historical data set illustrates the benefits of past regulatory control efforts and also shows the way for future control strategies.

Five of the approximately 17 current active sites in CARB's statewide toxics monitoring network are in the Basin and vicinity as shown in Figure C-1. Simi Valley is included in this analysis since it is just outside the western edge of the Basin and represents conditions in the western end of the San Fernando Valley. The measurements consist of 24-hour integrated samples collected once every 12 days. Table C-1 lists the toxic air contaminants analyzed here. The carcinogens in the table are identified with an asterisk.



Figure C-1. ARB toxic monitoring sites in the South Coast Air Basin and vicinity.

Table C-1. Toxic Air Contaminants Considered.

Toxic VOC		Toxic PM
Acetaldehyde*	Methyl Bromide	Hexavalent Chromium*
Acrolein	Methyl Chloroform	Lead*
Benzene*	Methyl Ethyl Ketone	Manganese
1,3-Butadiene*	Methylene Chloride*	Nickel*
Carbon Tetrachloride*	Perchloroethylene*	Selenium
Chloroform*	Styrene	
Ethyl Benzene*	Toluene	
Formaldehyde*	Trichloroethylene*	

^{*} carcinogen

Inhalation cancer risks have decreased significantly at all stations since 1990 as shown in Figure C-2. Specifically, risks have decreased by 83, 78, 81, 78, and 78 percent at Burbank, Los Angeles, Long Beach, Riverside, and Simi Valley, respectively. The improvement is primarily from reductions in ambient concentrations of benzene (87 to 91 percent) and 1,3-butadiene (83 to 86 percent) and secondarily from decreases in hexavalent chromium (65 to 91 percent) and perchloroethylene (85 to 95 percent) concentrations.

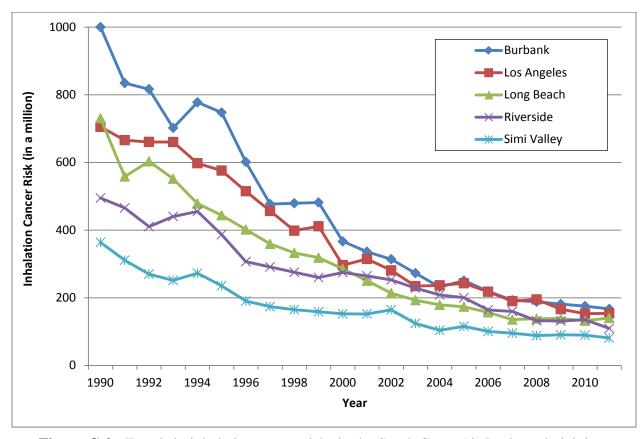


Figure C-2. Trends in inhalation cancer risks in the South Coast Air Basin and vicinity. (excluding cancer risks from diesel particulate)

The risk reductions shown in Figure C-2 occurred in spite of significant increases in population and vehicle activity. As shown in Table C-2, population increased by 31.4 percent since 1990 and daily VMT, vehicle population, and daily fuel consumption increased by 35.2, 41.4, and 23.5 percent, respectively.

Table C-2. Change in Population and Vehicle Activity in the SCAQMD Since 1990.

Activity Variable	1990	2011	% Increase
Population	13,332,179	17,515,454	31.4
Daily VMT (in thousands of miles per day)	291,113	393,657	35.2
Vehicle Population	7,756,171	10,969,831	41.4
Daily Fuel Consumption (in thousands of gallons per day)	19,027	23,498	23.5

Source: http://www.arb.ca.gov/app/emsinv/trends/ems_trends.php.

VMT = vehicle miles travelled.

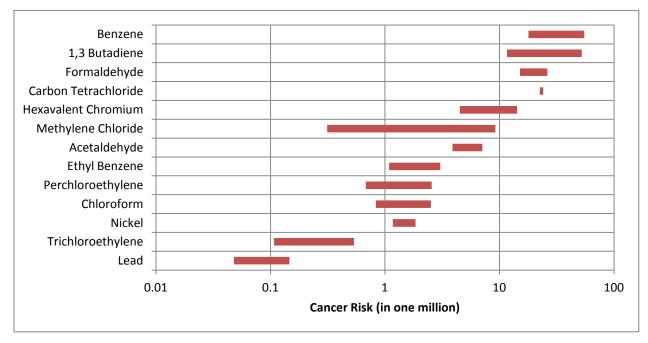


Figure C-3. Inhalation cancer risks in the Basin and vicinity over the period, 2009 to 2011.

The relative importance of each of the toxics is illustrated in the Figure C-3 above. The range of cancer risks for the five sites analyzed here are shown for the most recently available three-year period (2009 to 2011). Benzene, 1,3-butadiene, formaldehyde, carbon tetrachloride, and hexavalent chromium are the largest contributors to the inhalation cancer risks, contributing individually from 5 to over 50 in a million. The ambient carbon tetrachloride concentrations observed in the Basin are not from a local source of emissions but represent a background condition. Note that there is little variability in cancer risks attributable to carbon tetrachloride as indicated by its short bar

in Figure C-3. In fact, there is little variability statewide in carbon tetrachloride concentrations, with concentrations varying by less than ten percent. Methylene chloride, acetaldehyde, ethyl benzene, perchloroethylene, chloroform, and nickel each contribute between 1 and 10 in a million and trichloroethylene and lead contribute less than 1 in a million to the inhalation cancer risks.

As demonstrated in the series of Multiple Air Toxics Exposure Studies (MATES) conducted by the SCAQMD, diesel particulate matter (DPM) is by far the largest contributor to inhalation cancer risks observed in the Basin. MATES III attributed about 84 percent of the inhalation cancer risks to DPM, [2] so cancer risks shown in Figure C-3 represent only 16 percent of the total inhalation cancer risks.

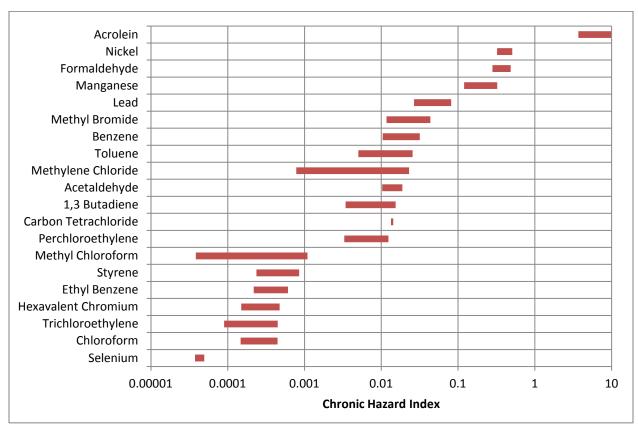


Figure C-4. Non-cancer chronic risks in the Basin and vicinity over the period, 2009 to 2011.

The range of chronic non-cancer risks for the five sites analyzed here are shown above in Figure C-4 for the most recently available three-year period (2009 to 2011). For each toxic, the ratio of the observed concentration to the pollutant's chronic reference exposure level (REL)[†] is shown. Ratios greater than one indicate the potential for adverse health effects. Note that acrolein, a respiratory irritant, is the only toxic in which

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[†] The REL is an exposure level at or below which no non-cancer adverse health is anticipated to occur in a human population for a specific duration. This definition is taken directly from: OEHHA, 2003 - *The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*.

ambient concentrations are above its REL. It should be noted that the ambient concentrations of acrolein are above its REL throughout the state.

Notes and References

- [1] Information about and data from ARB's toxic monitoring data are available at: http://www.arb.ca.gov/adam/toxics/toxics.html.
- [2] See page ES-3 of the Executive Summary which is available at: http://www.aqmd.gov/prdas/matesIII/MATESIIIFinalReportSept2008.html.